



Utah Water Assessment & Conditions Monitoring (Drought Webinar)

The meeting will begin shortly



Thank you to our contributors



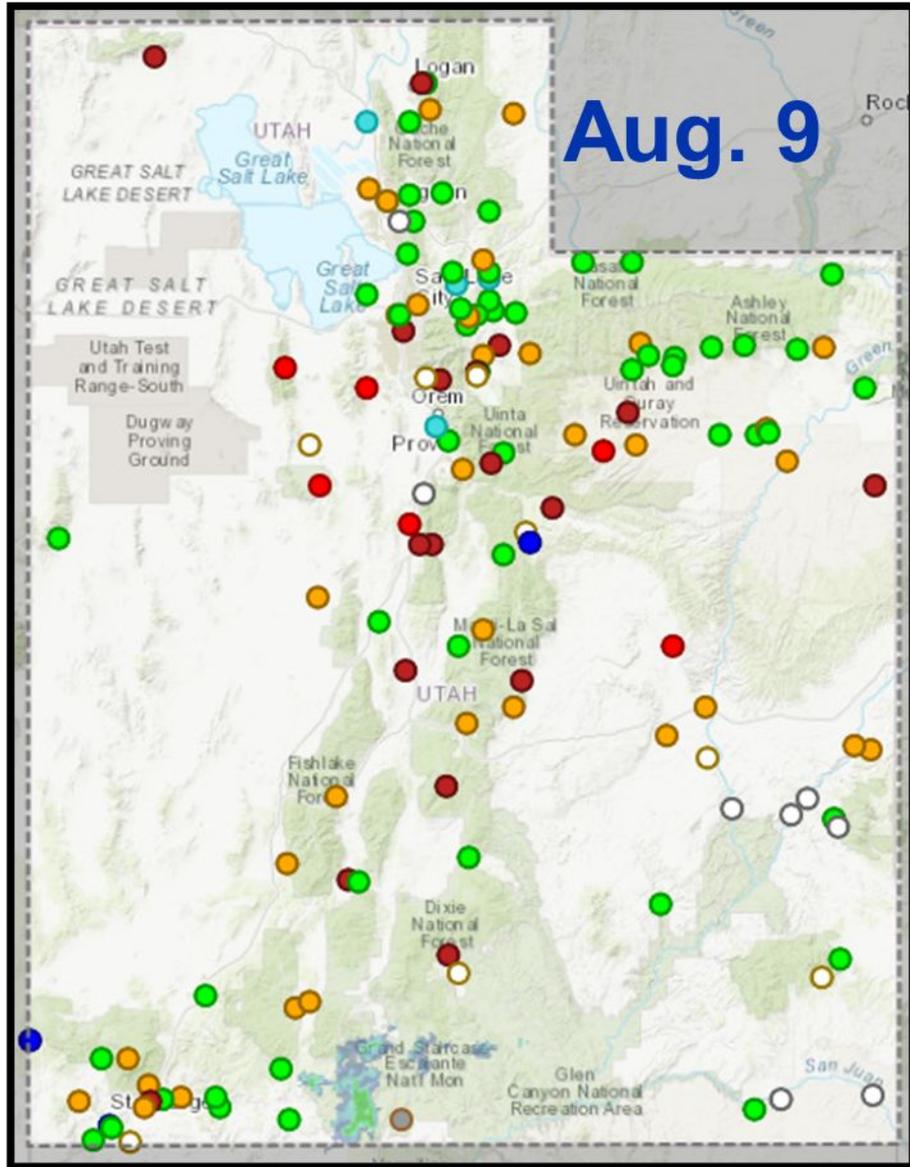


Utah Water Assessment & Conditions Monitoring Webinar

August 9, 2022

Current Streamflows

July 26 Aug. 9



Aug. 9

Day-of-Year Status	% Gages	% Gages
All-time high for this day-of-year	0.0%	0.0%
Much above normal for this day-of-year	0.7%	2.2%
Above normal for this day-of-year	4.4% █	2.9% █
Normal for this day-of-year	38.0% █	40.1% █
Below normal for this day-of-year	29.9% █	24.8% █
Much below normal for this day-of-year	10.2% █	13.1% █
All-time low for this day-of-year	5.8% █	4.4% █
Not ranked - insufficient record	7.3% █	7.3% █
Not ranked - stream not flowing	3.6% █	4.4% █

Streamflow: Status

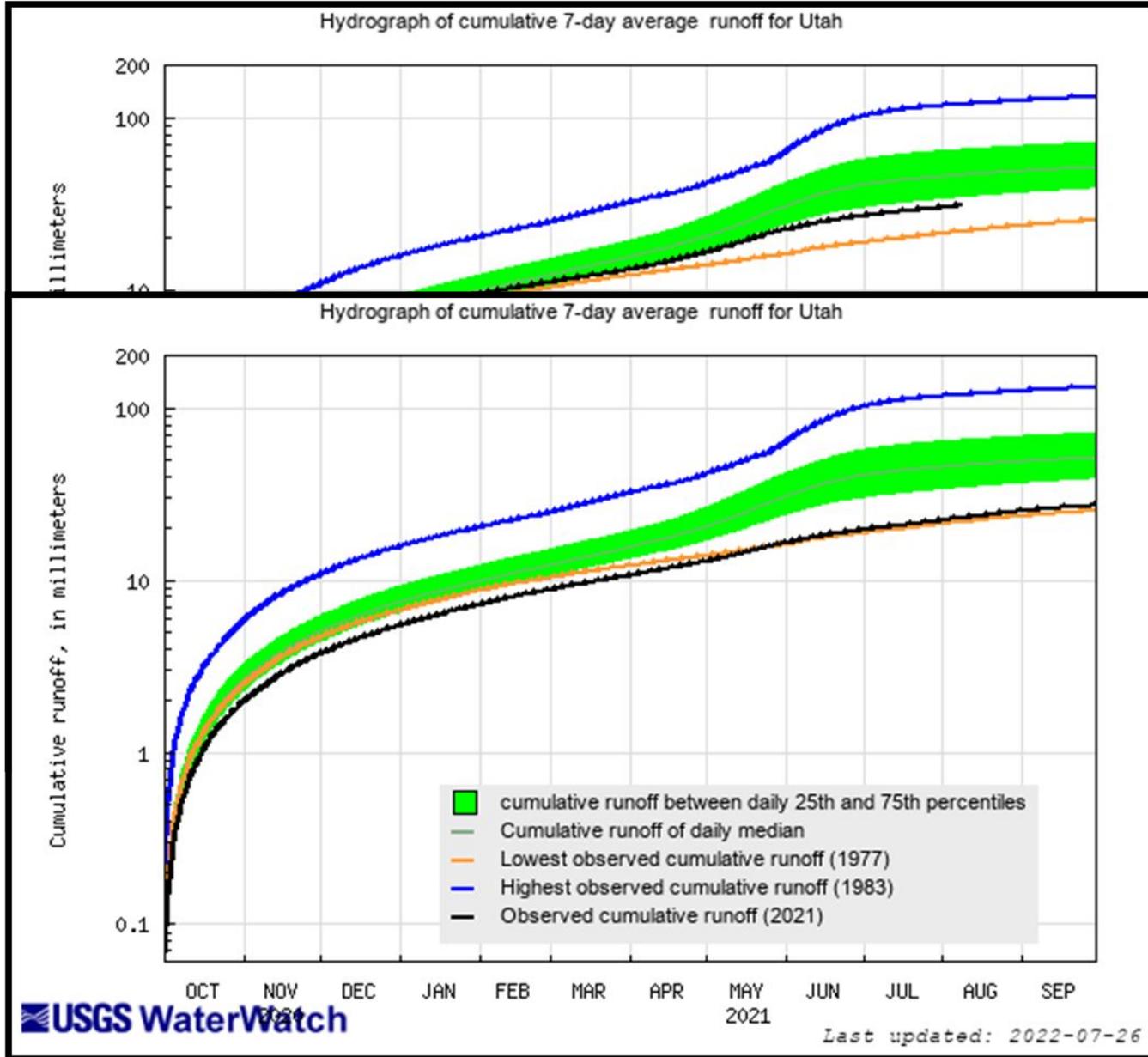
- Above flood stage
- All-time high for this day (100th percentile (maximum))
- Much above normal (>90th percentile)
- Above normal (76th - 90th percentile)
- Normal (25th - 75th percentile)
- Below normal (10th - 24th percentile)
- Much below normal (<10th percentile)
- All-time low for this day (0th percentile (minimum))
- Not flowing
- Not ranked
- Measurement flag
- Recent measurement unavailable

*Sites must have at least 10 years of streamflow record to be ranked on this graphic

Agency - USGS UTWSC
 Presenter - Ryan Rowland



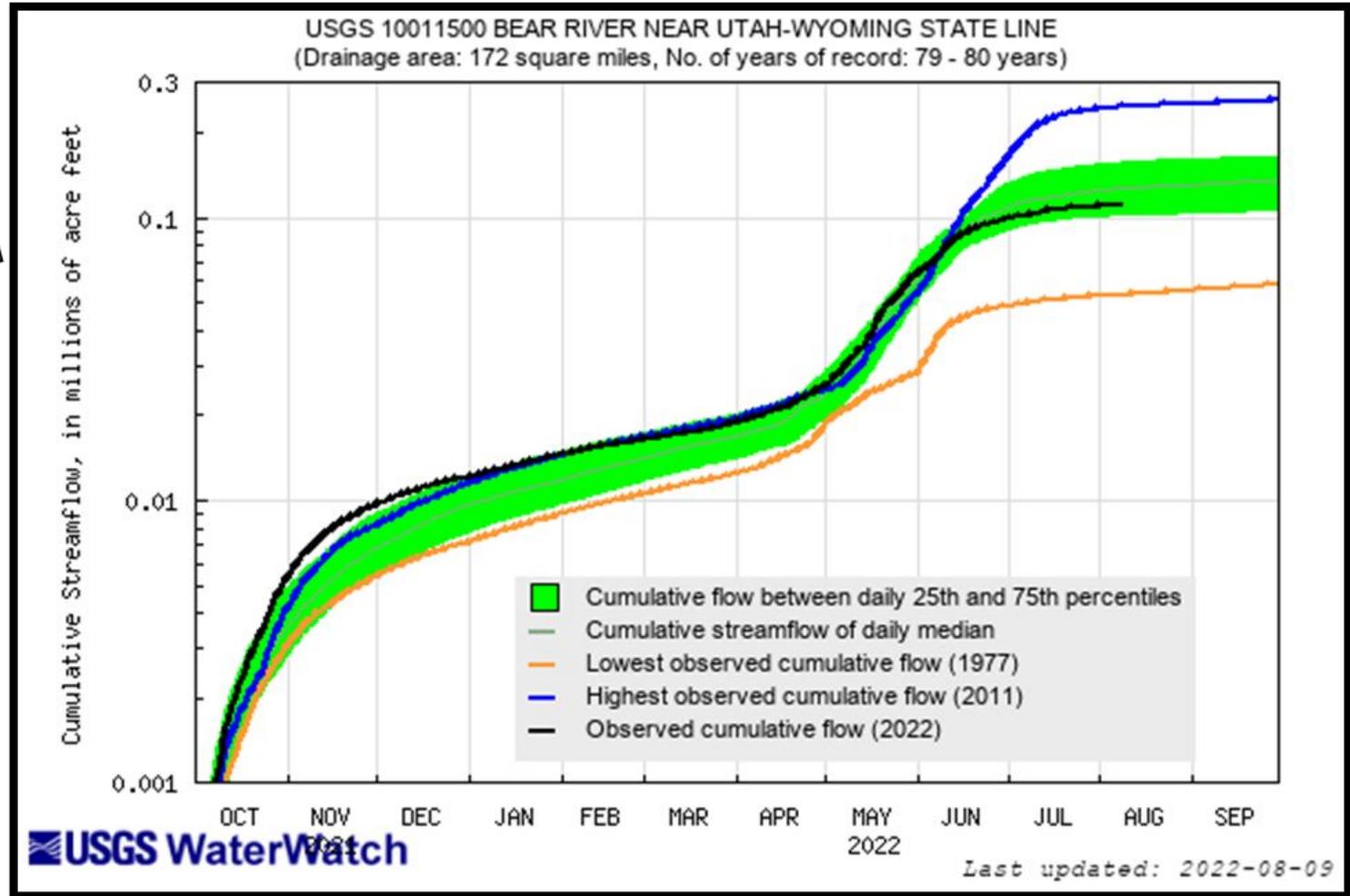
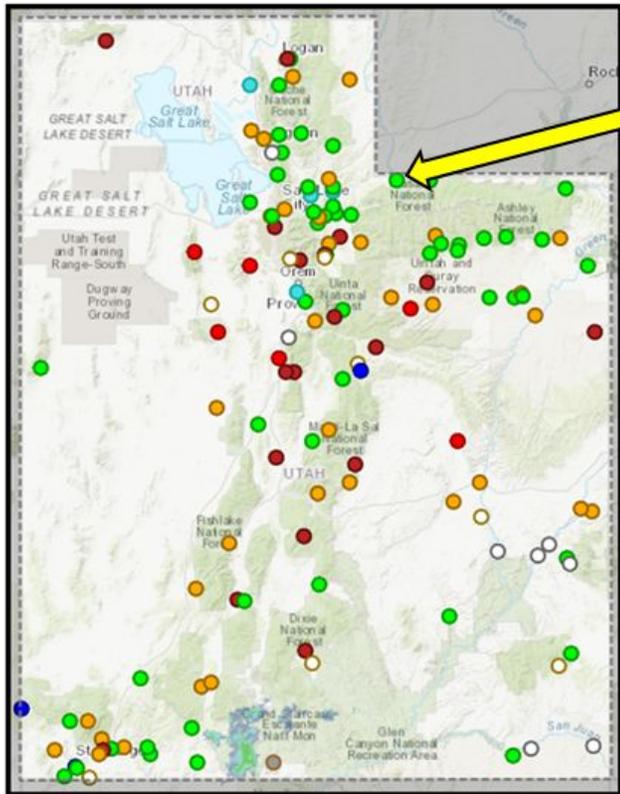
Area Based Cumulative Runoff for Utah



□ Area based runoff computed from mixed regulated and unregulated streamflows

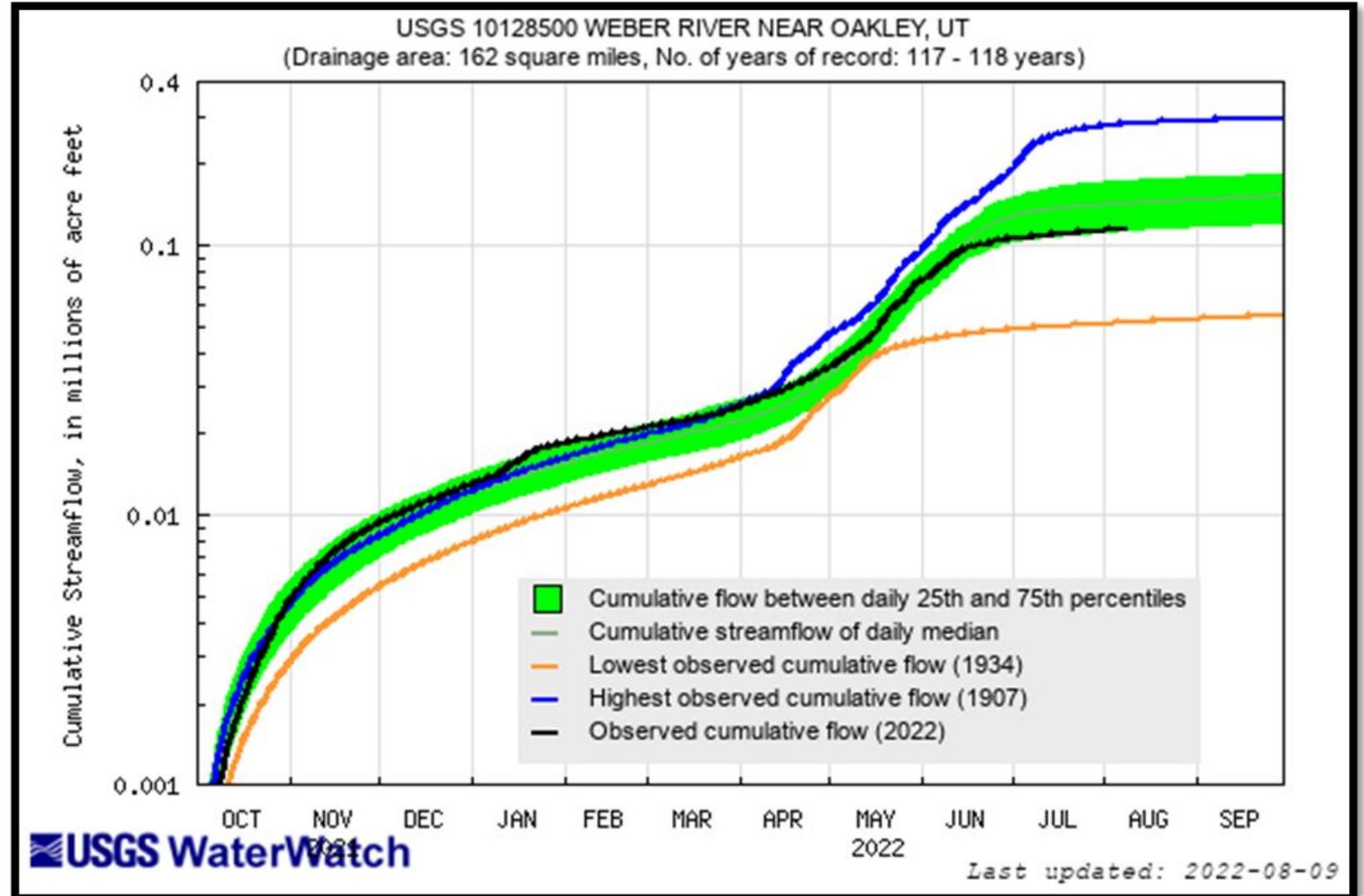
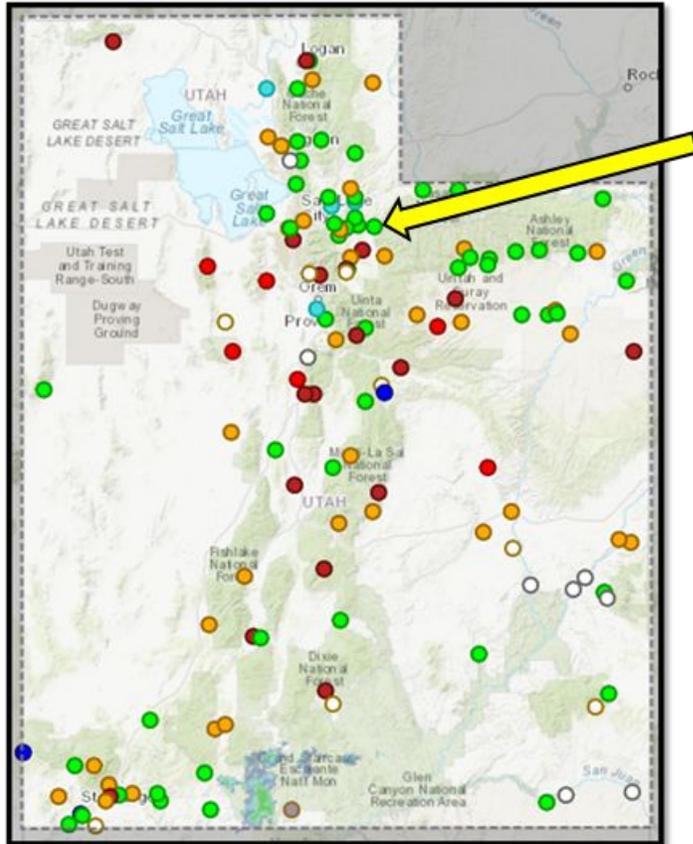
□ WY2022 higher than WY2021, still below normal

Cumulative Streamflow at Selected Gages



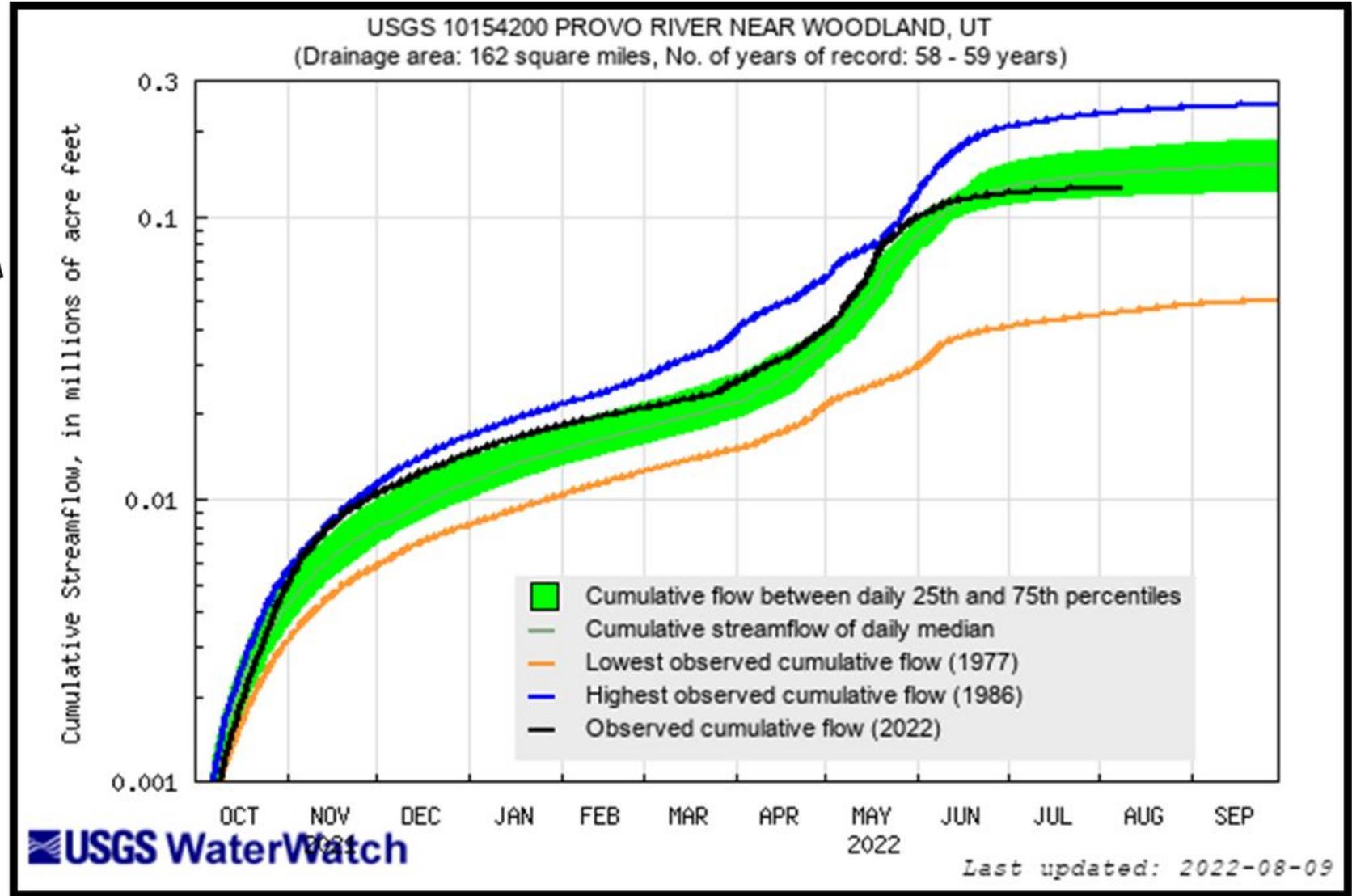
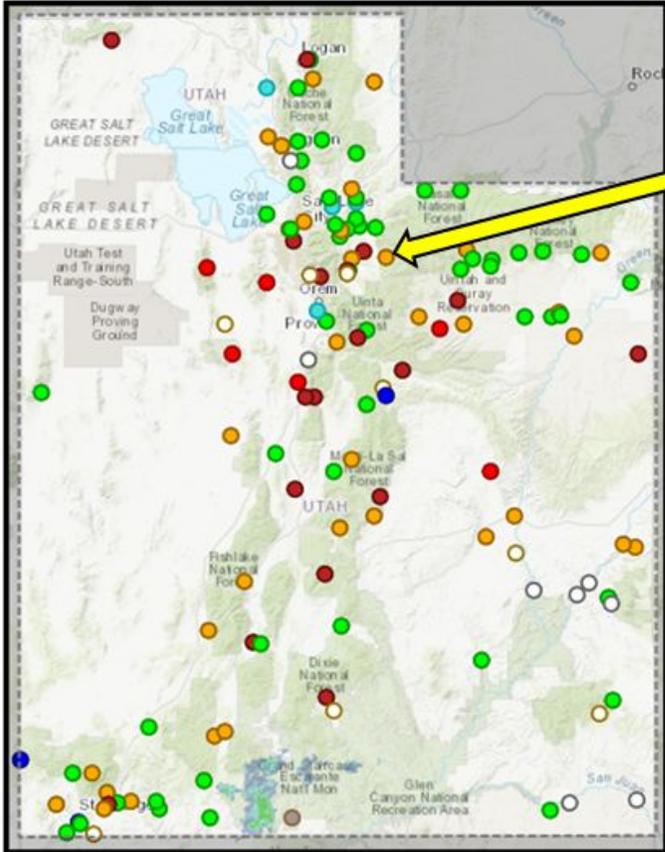
Agency - USGS UTWSC
Presenter - Ryan Rowland

Cumulative Streamflow at Selected Gages



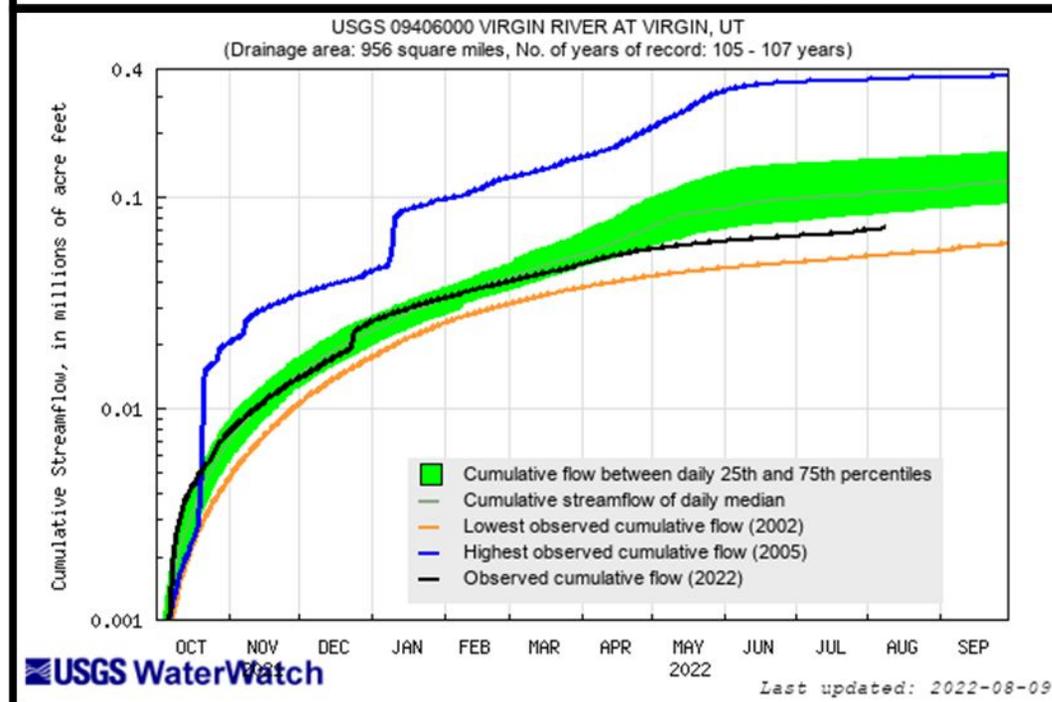
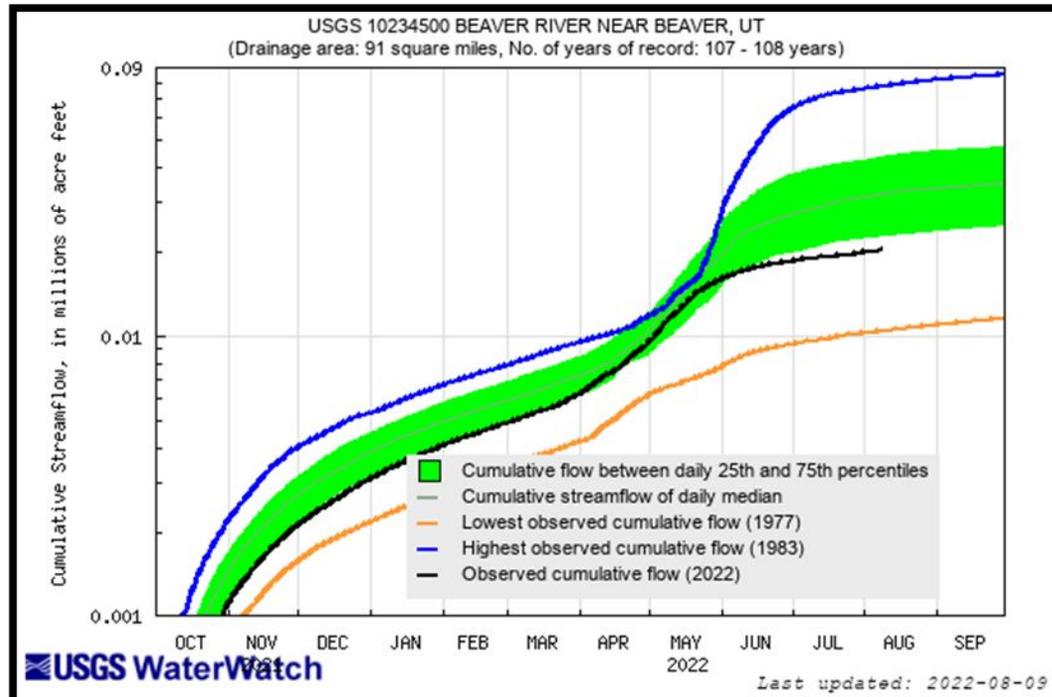
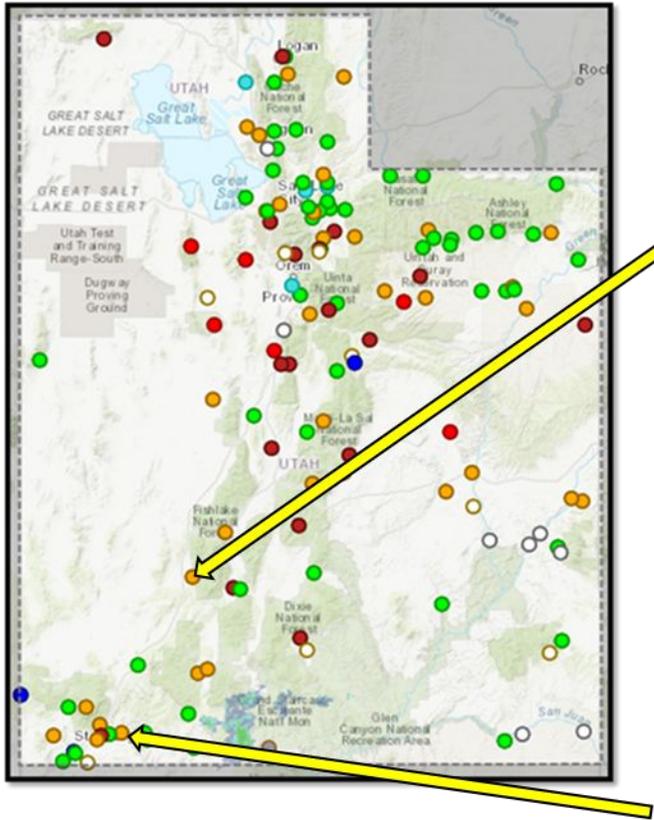
Agency - USGS UTWSC
Presenter - Ryan Rowland

Cumulative Streamflow at Selected Gages

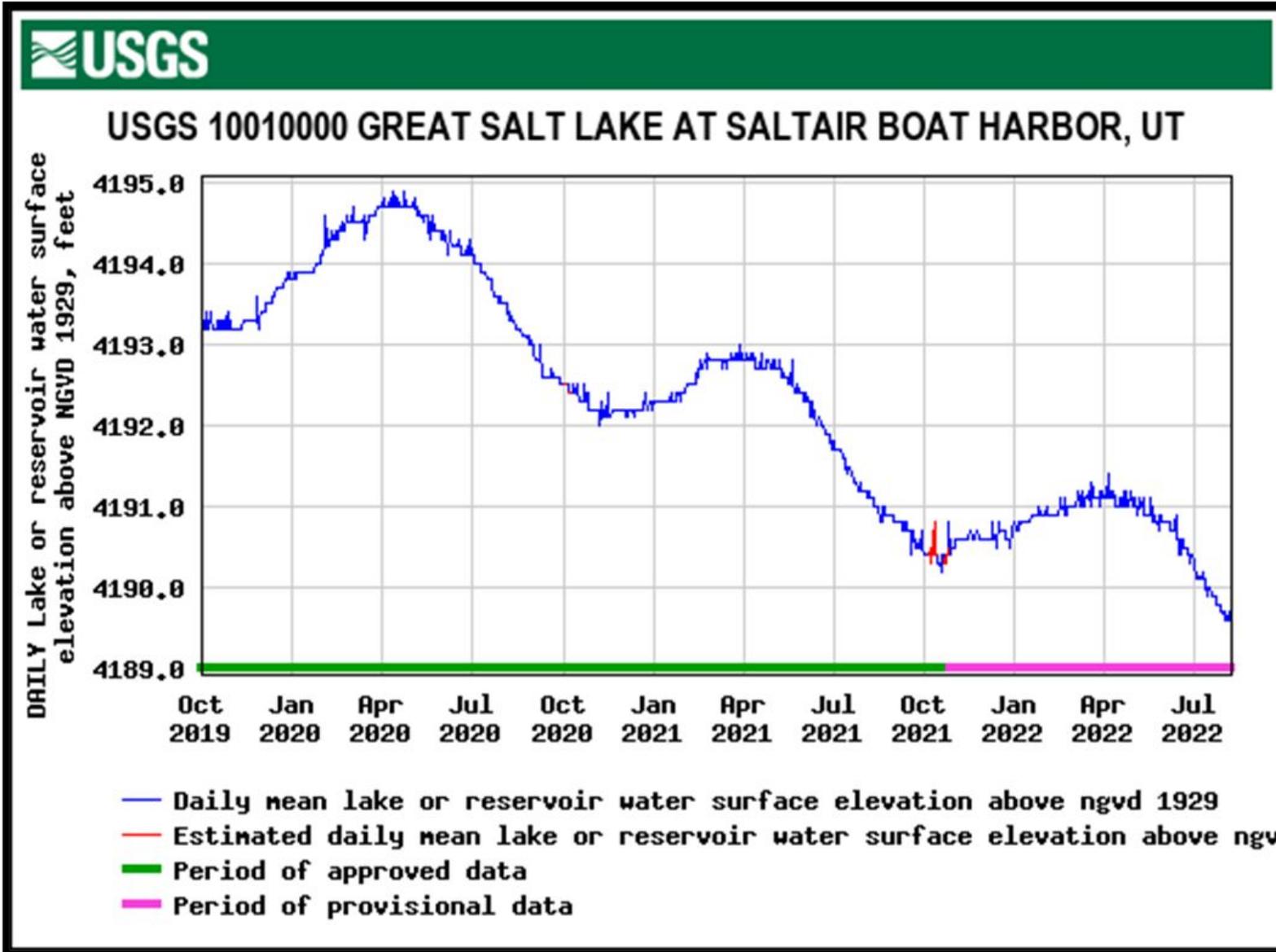


Agency - USGS UTWSC
Presenter - Ryan Rowland

Cumulative Streamflow at Selected Gages



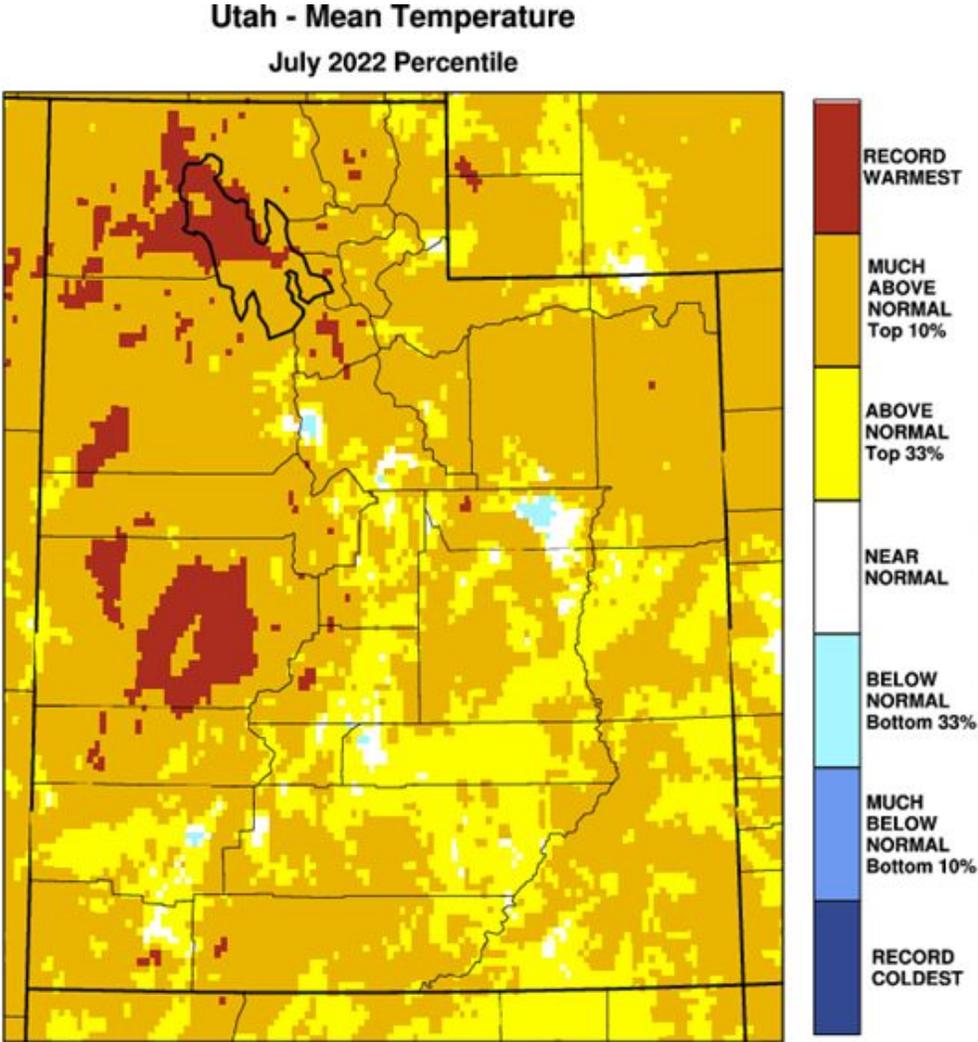
Great Salt Lake Water Surface Elevation



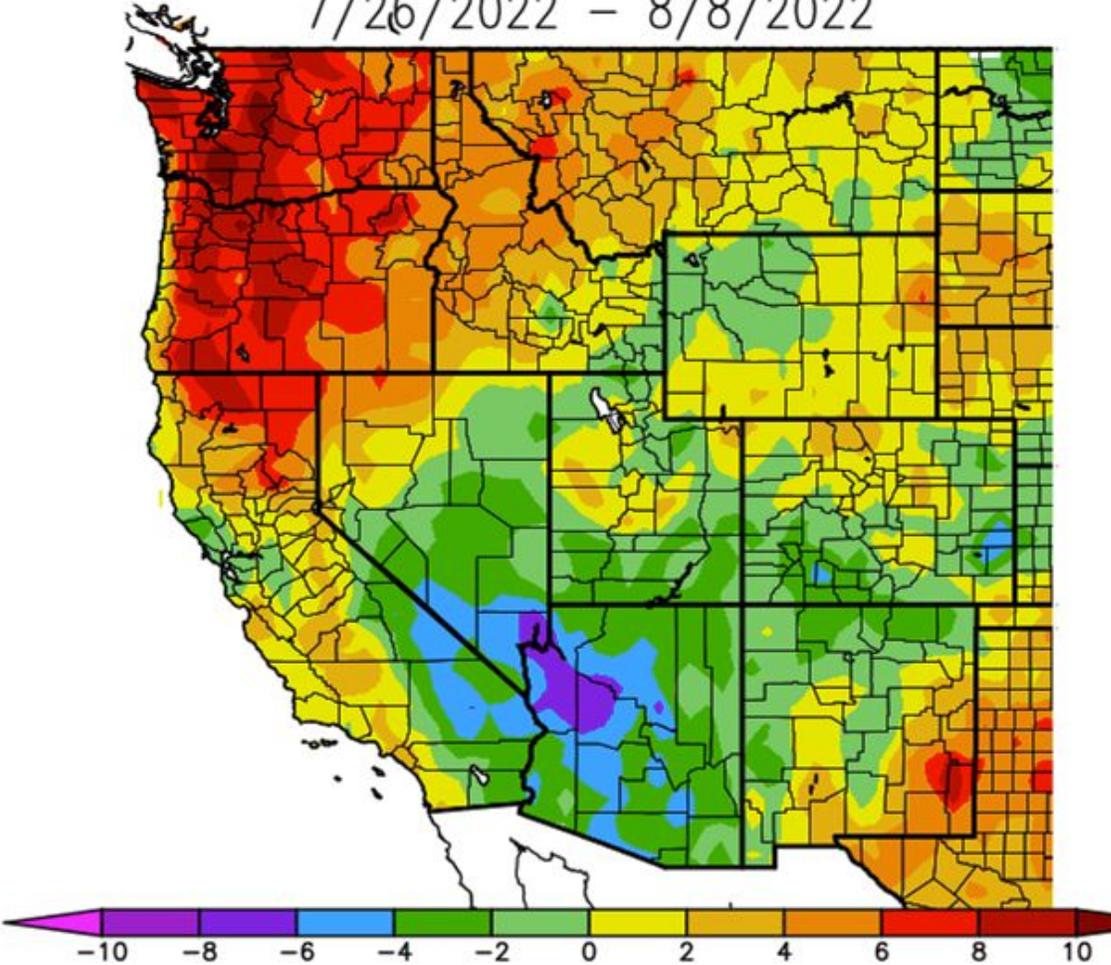
□ Mean daily value 8/8/2022 = 4,189.6' (record lows continue)

□ Mean daily value 7/25/2022 = 4,189.8'

Temperatures (July Mean Percentile; Max. Temp. Anomaly)

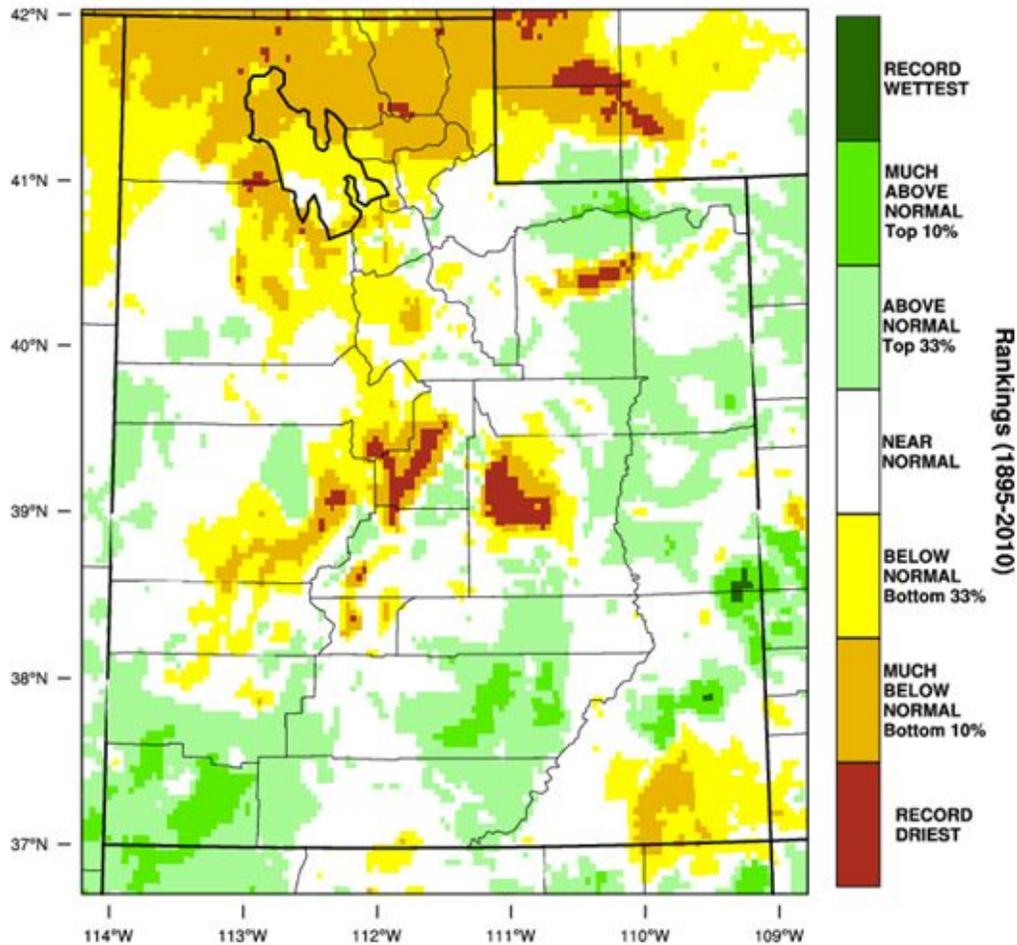


Av. Max. Temperature dep from Ave (deg F)
7/26/2022 - 8/8/2022

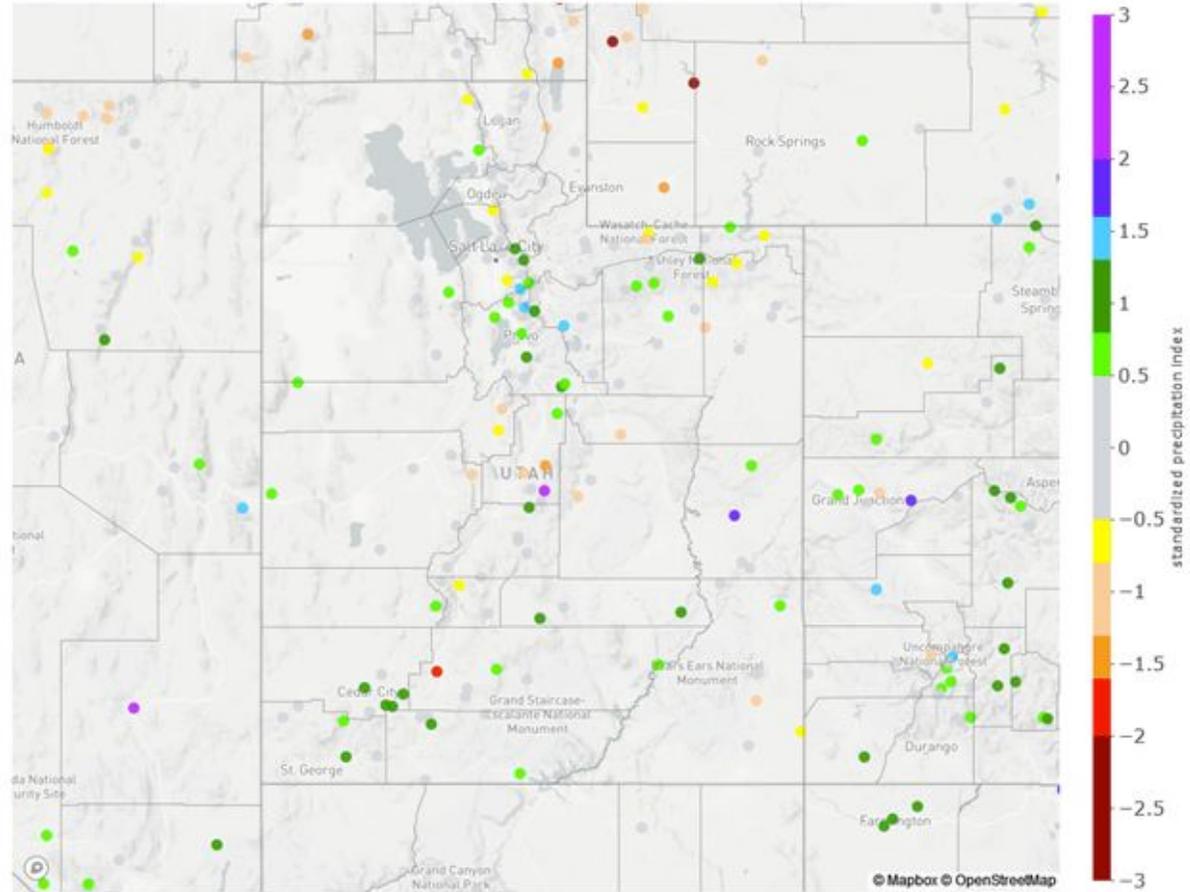


Precipitation (July Percentile; 30-day SPI)

Utah - Precipitation
July 2022 Percentile



30-day Standardized Precipitation Index: 2022/07/07 - 2022/08/05



WestWide Drought Tracker, U Idaho/WRCC Data Source: PRISM (Prelim), created 5 AUG 2022

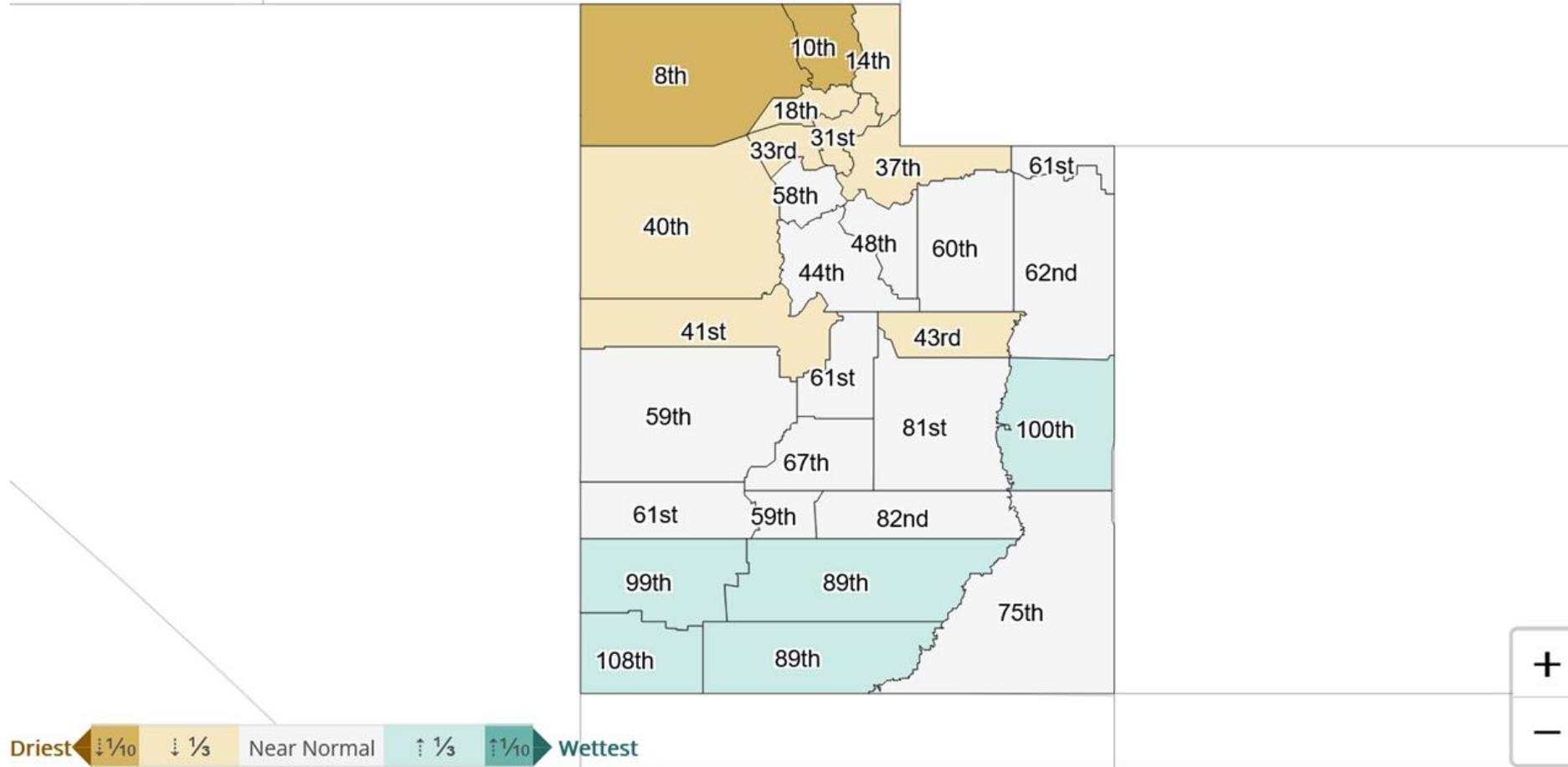
Agency - Utah Climate Center

Presenter - Jon Meyer

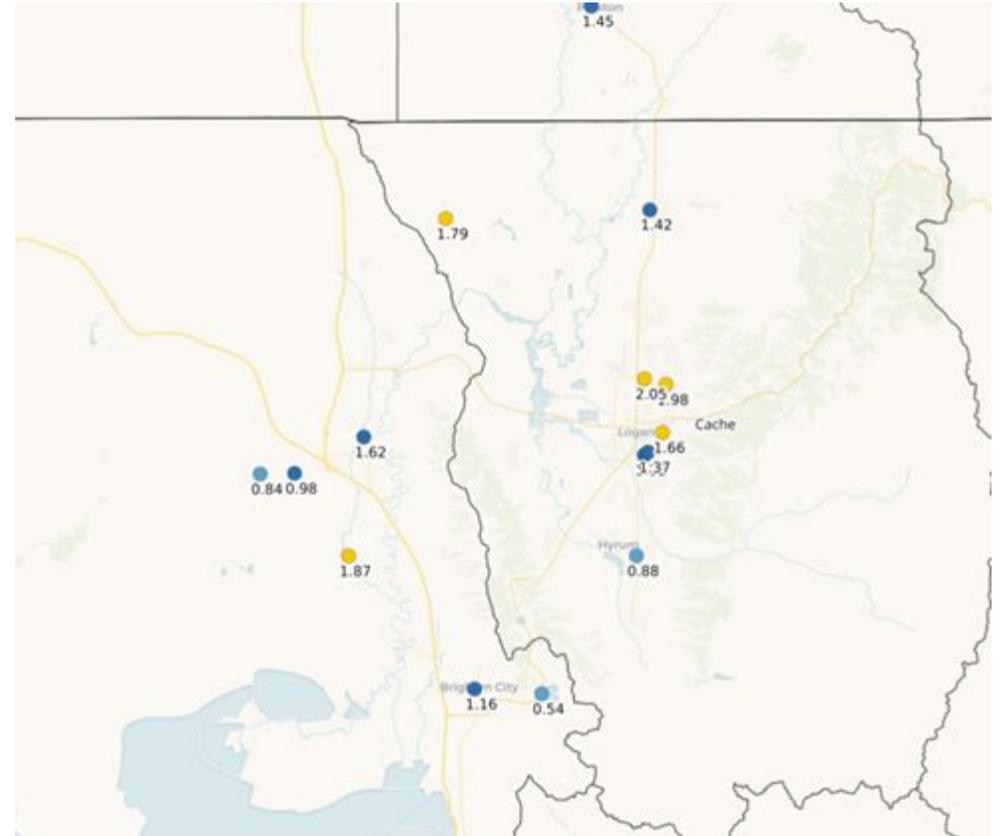
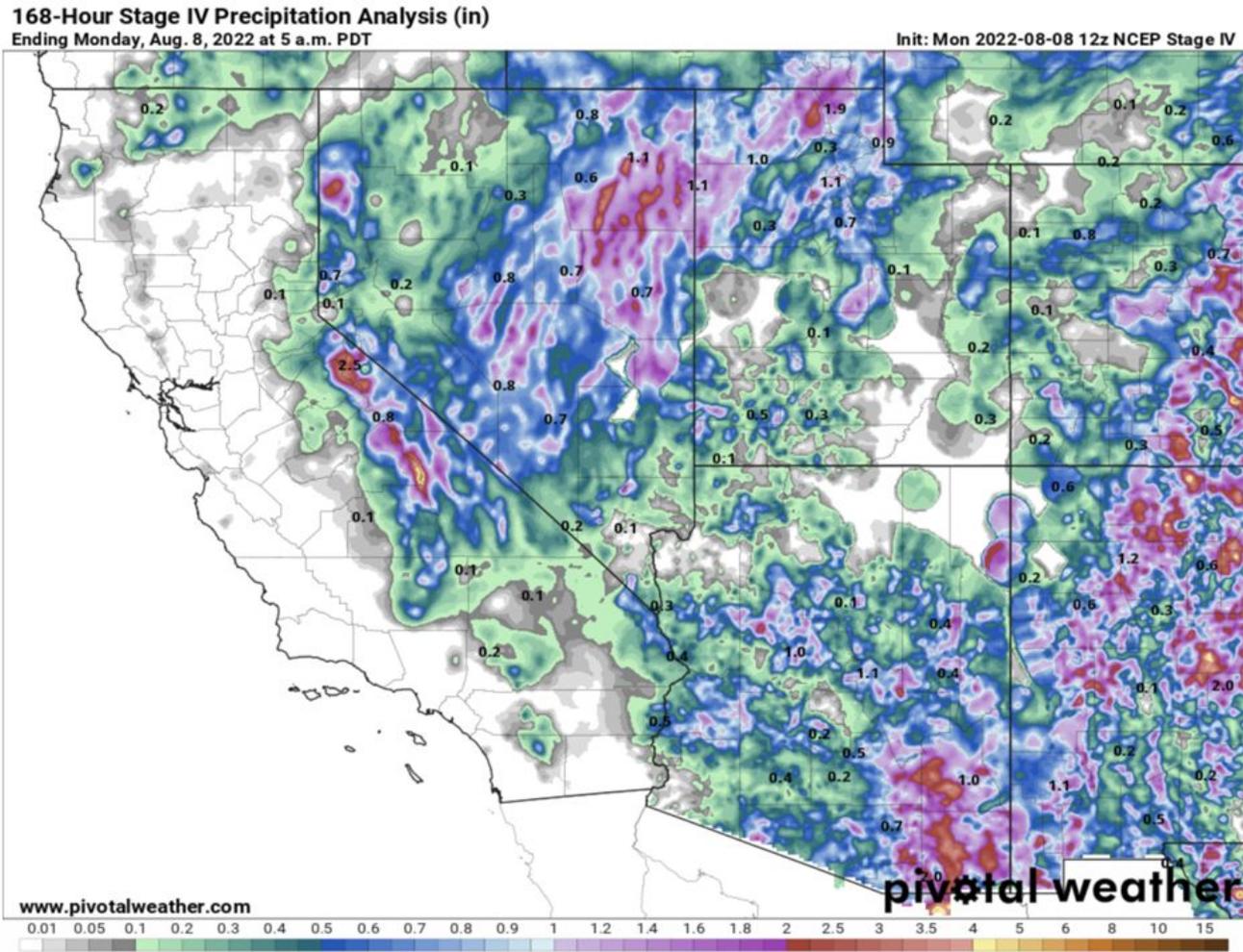
Precipitation (NCEI rank by country)

County Precipitation Rank (of 128 years)

July 2022



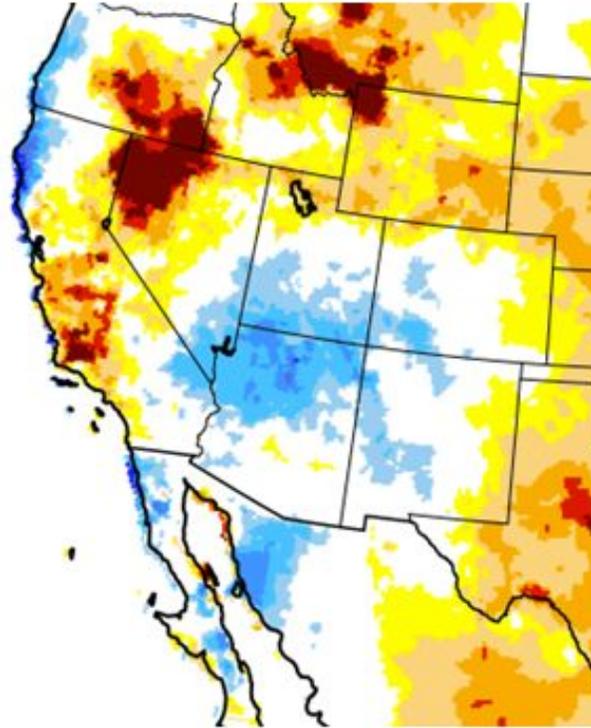
Precipitation (Recent Northern Utah Event)



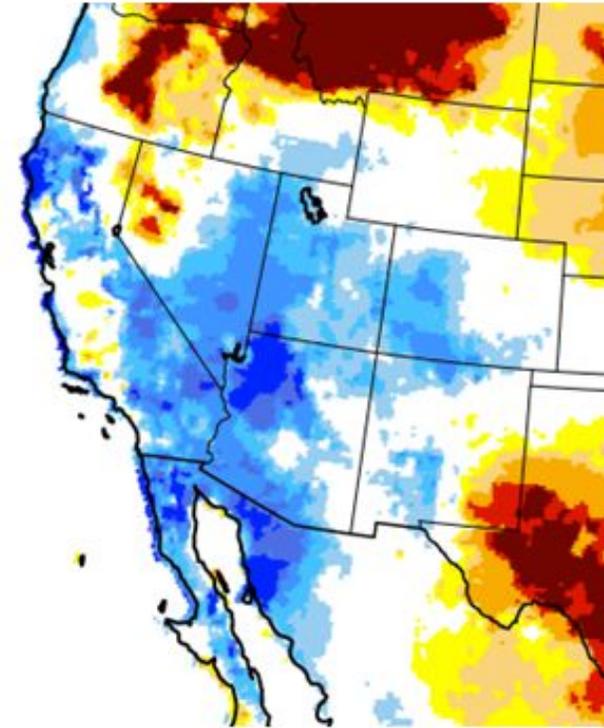
Agency - Utah Climate Center
Presenter - Jon Meyer

Evaporative Demand Drought Index (EDDI)

1-Month (to Aug 4)



1-Week (to Aug 4)



Drought categories



100% 98% 95% 90% 80% 70%

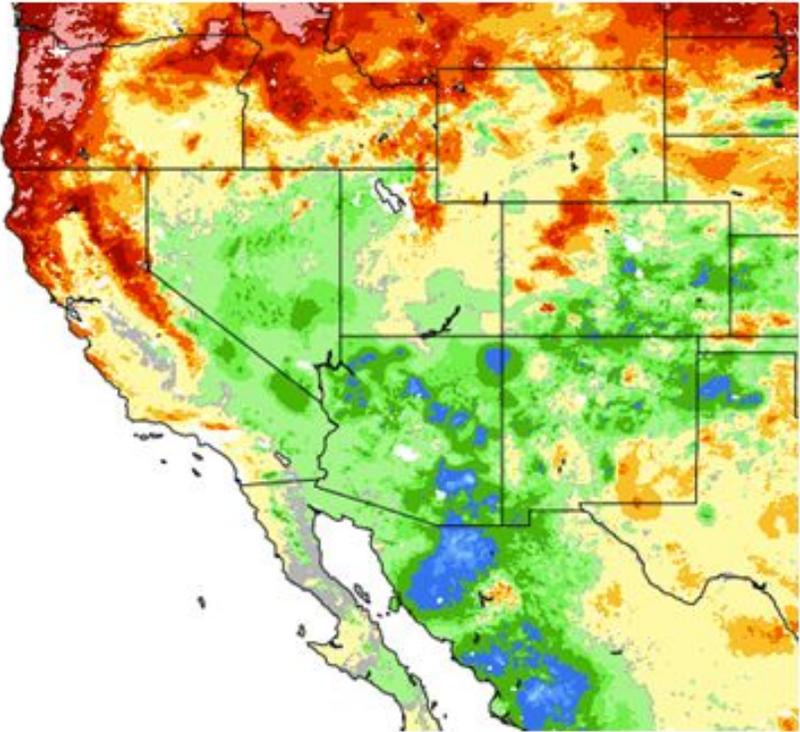
Wetness categories



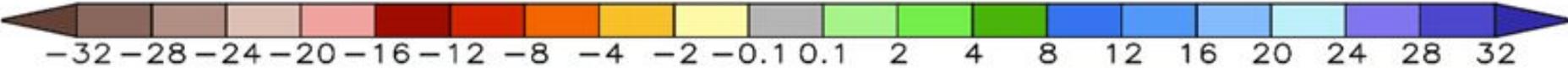
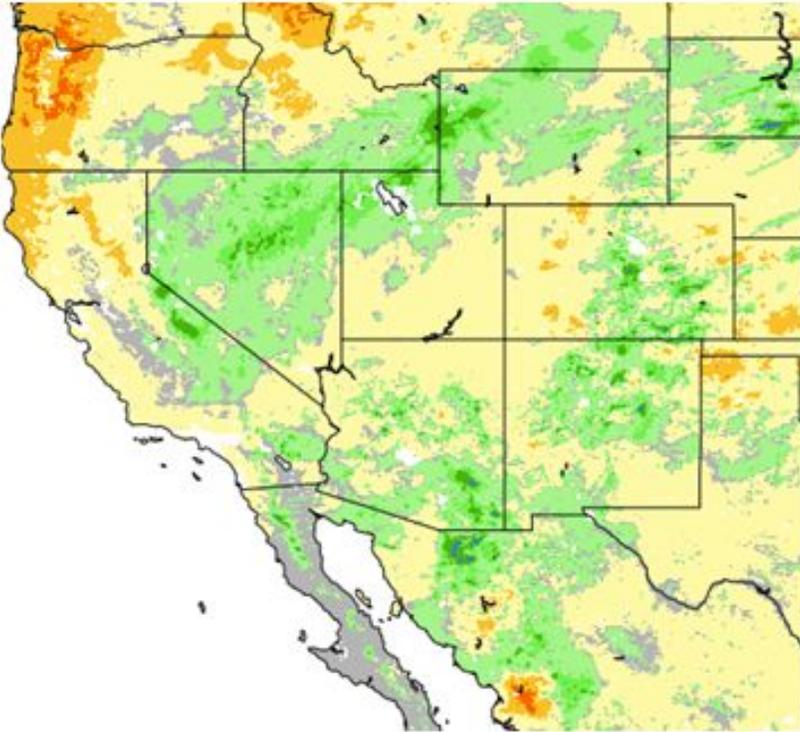
30% 20% 10% 5% 2% 0%

NASA SPORT Modeled Soil Moisture Change

1-Month (to Aug 9)



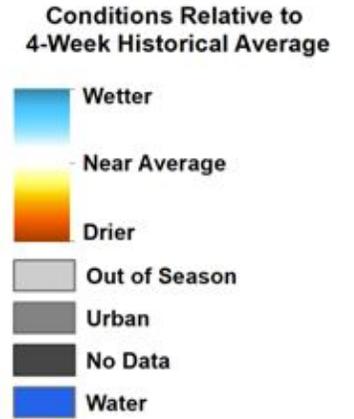
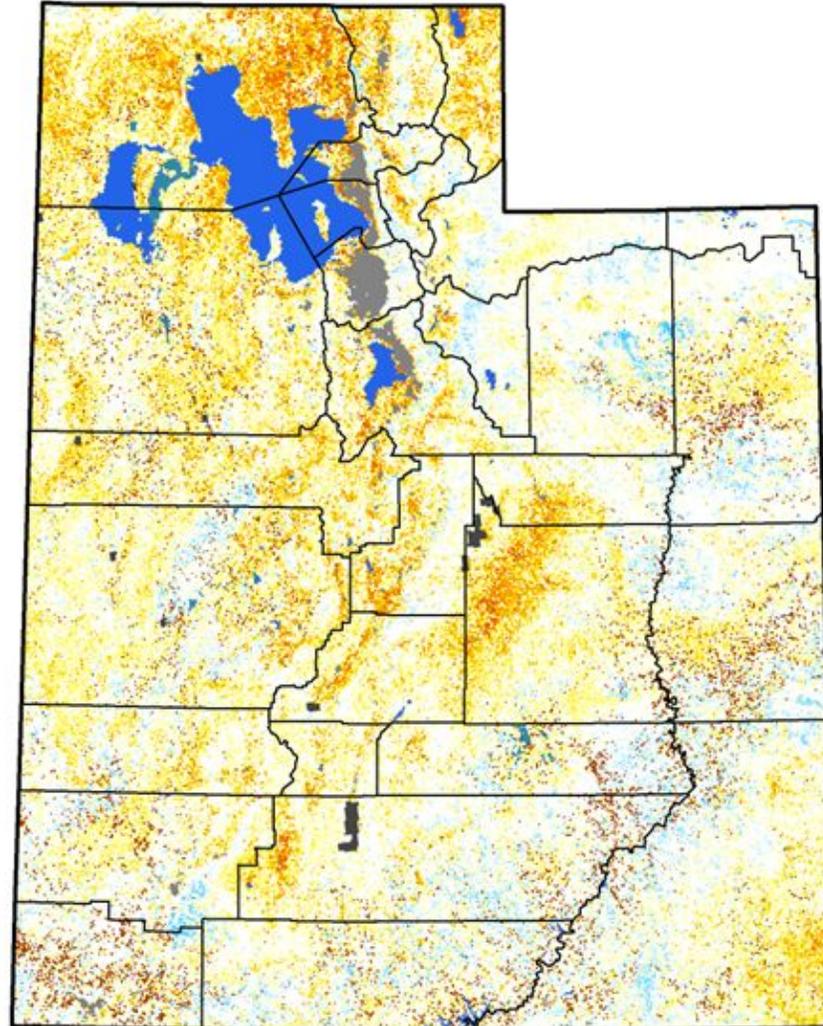
1-Week (to Aug 9)



Quick Drought Response Index

Utah

July 31, 2022
(Week 31)



Agency - Utah Climate Center
Presenter - Jon Meyer

Vegetation Drought Response Index (VegDRI; Aug 7)

[Evaporative Stress Index](#) [VegDRI](#) [Vegetation Health Index](#)

The Vegetation Drought Response Index (VegDRI) is a weekly depiction of drought's effects on vegetation stress across the contiguous United States, produced by the National Drought Mitigation Center, the U.S. Geological Survey's National Center for Earth Resources Observation and Science, and the High Plains Regional Climate Center. [Learn more.](#)

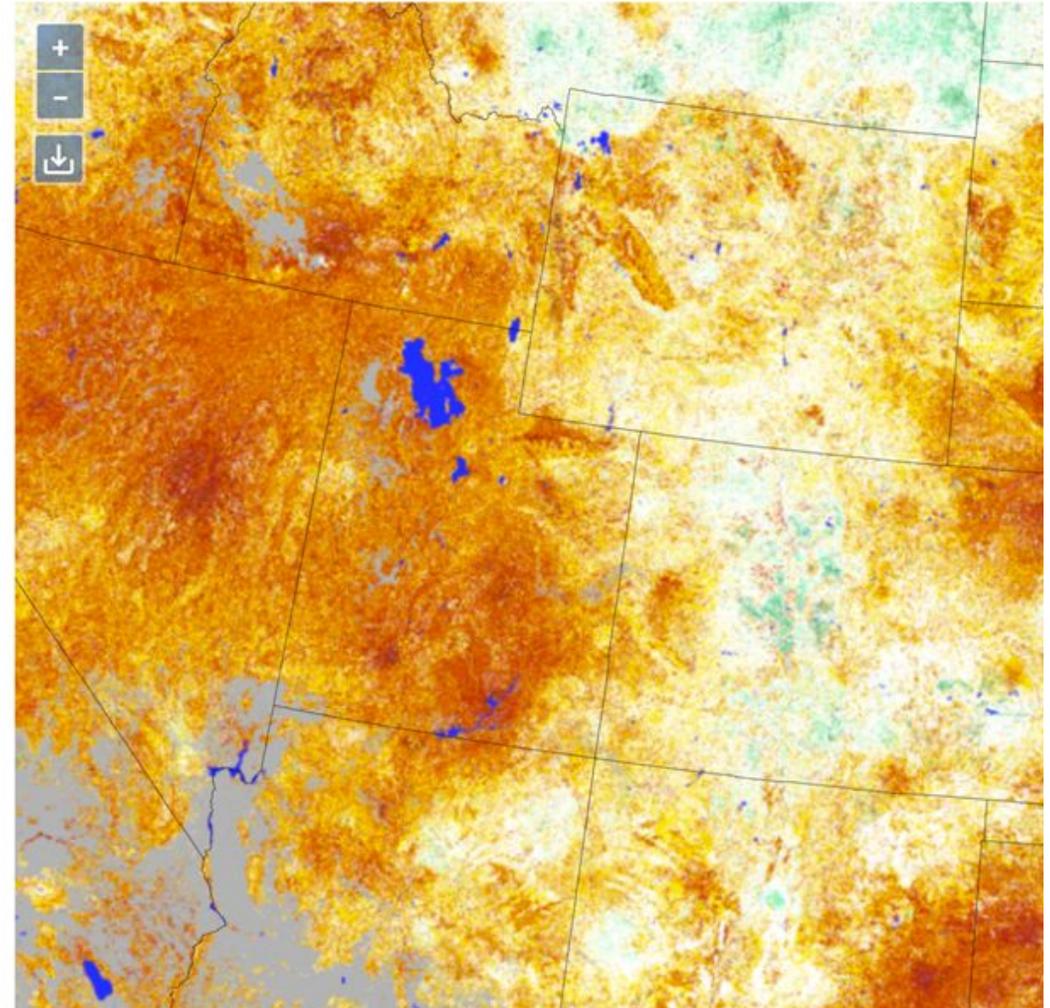
Drought Conditions



Moist Conditions



Other Conditions



Utah Climate Center Hi-Res Soil Moisture Forecast

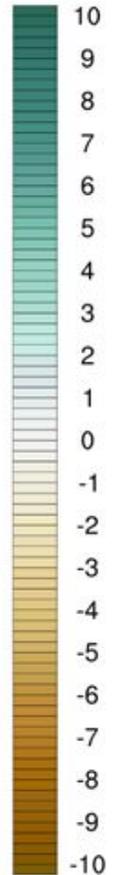
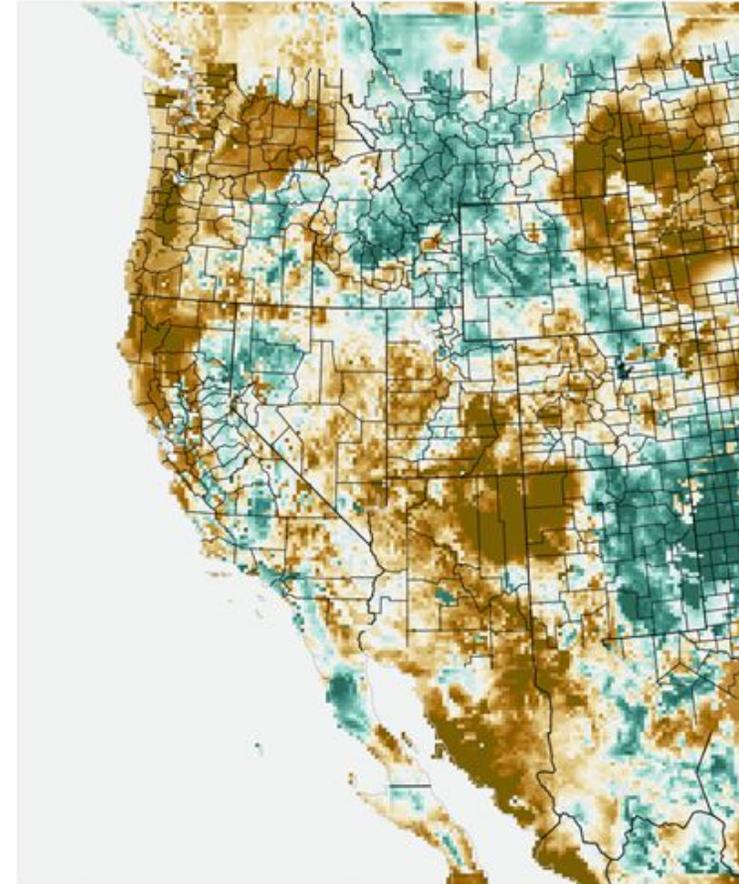
1-Week (to Aug 16)

Change in Soil Moisture Since Initialization (%)
F192 Valid Tue 2022-08-16 12z
Init: Mon 2022-08-08 12z

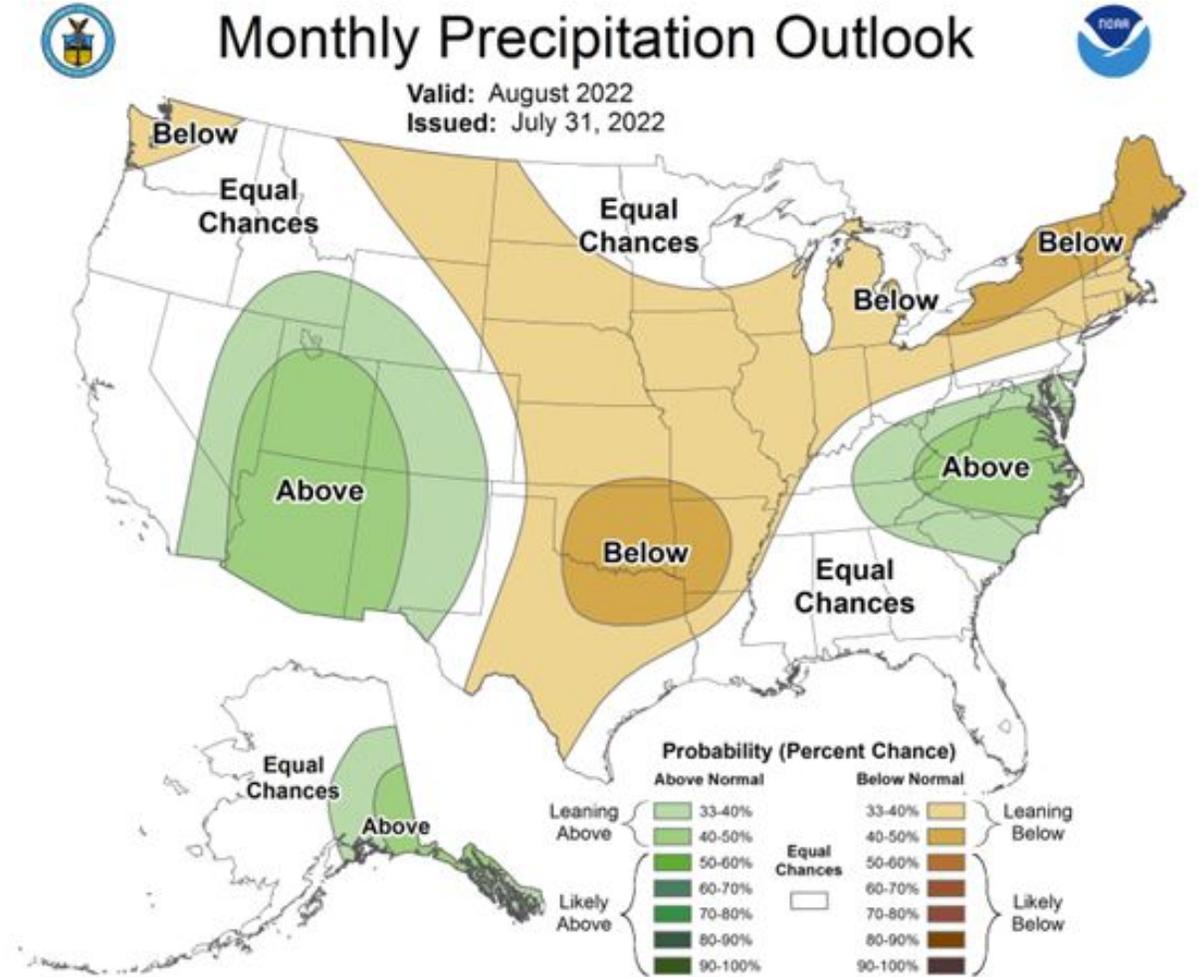
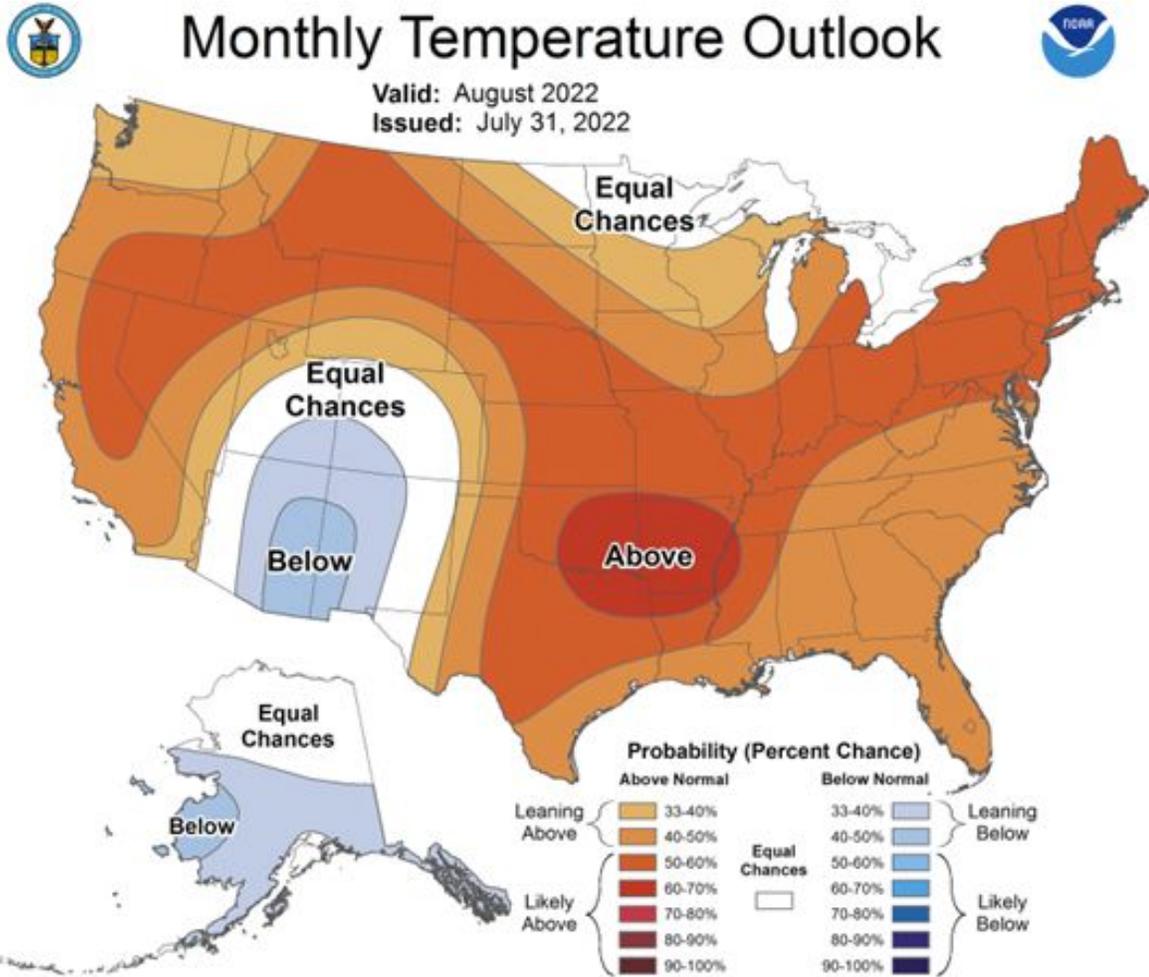


1-Month (to Sept 7)

Change in Soil Moisture Since Initialization (%)
F720 Valid Wed 2022-09-07 12z
Init: Mon 2022-08-08 12z



Climate Prediction Center One-Month Outlook



28 reservoirs below 55%

Reservoirs 20% full or less

Gunnison

Piute

Upper Enterprise

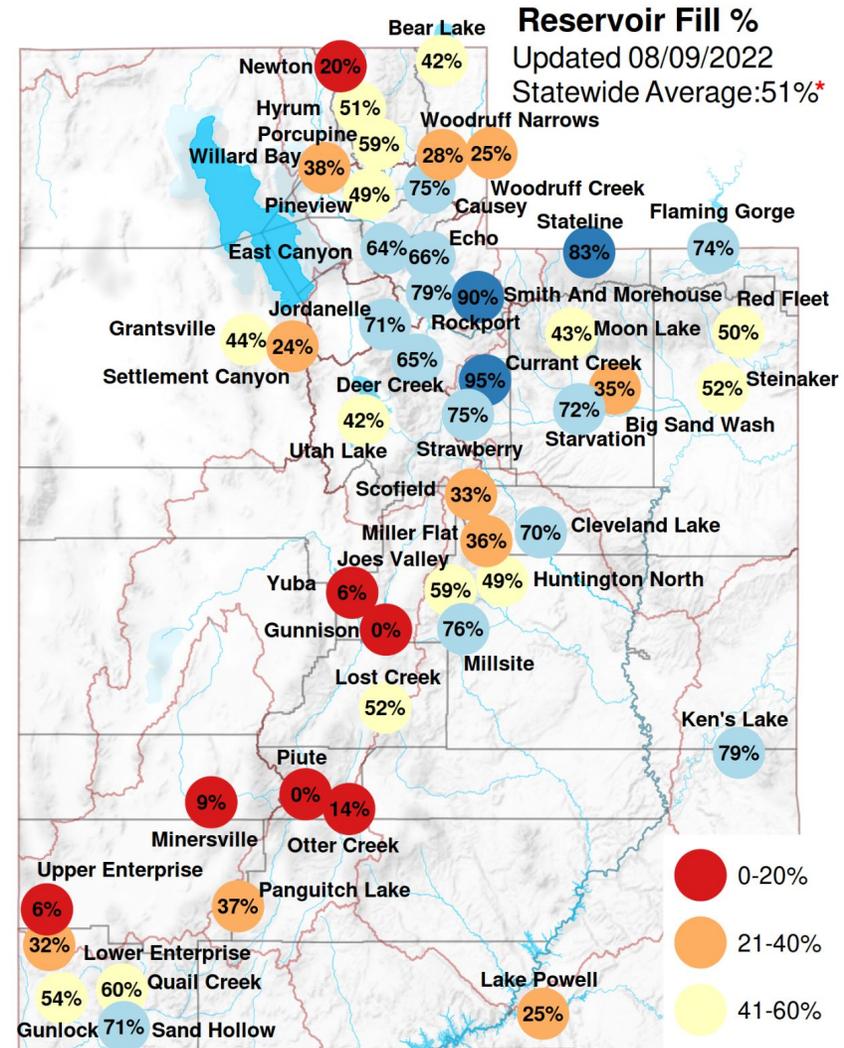
Sevier Bridge (Yuba)

Minersville

Otter Creek

Newton Dam

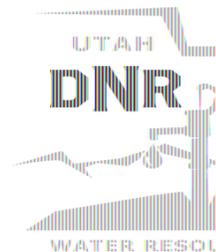
Settlement Canyon



Data Sources: water.utah.gov/reservoirlevels

*State average excludes Lake Powell & Flaming Gorge to better represent the state's water supply.

Total capacity including these is 41%

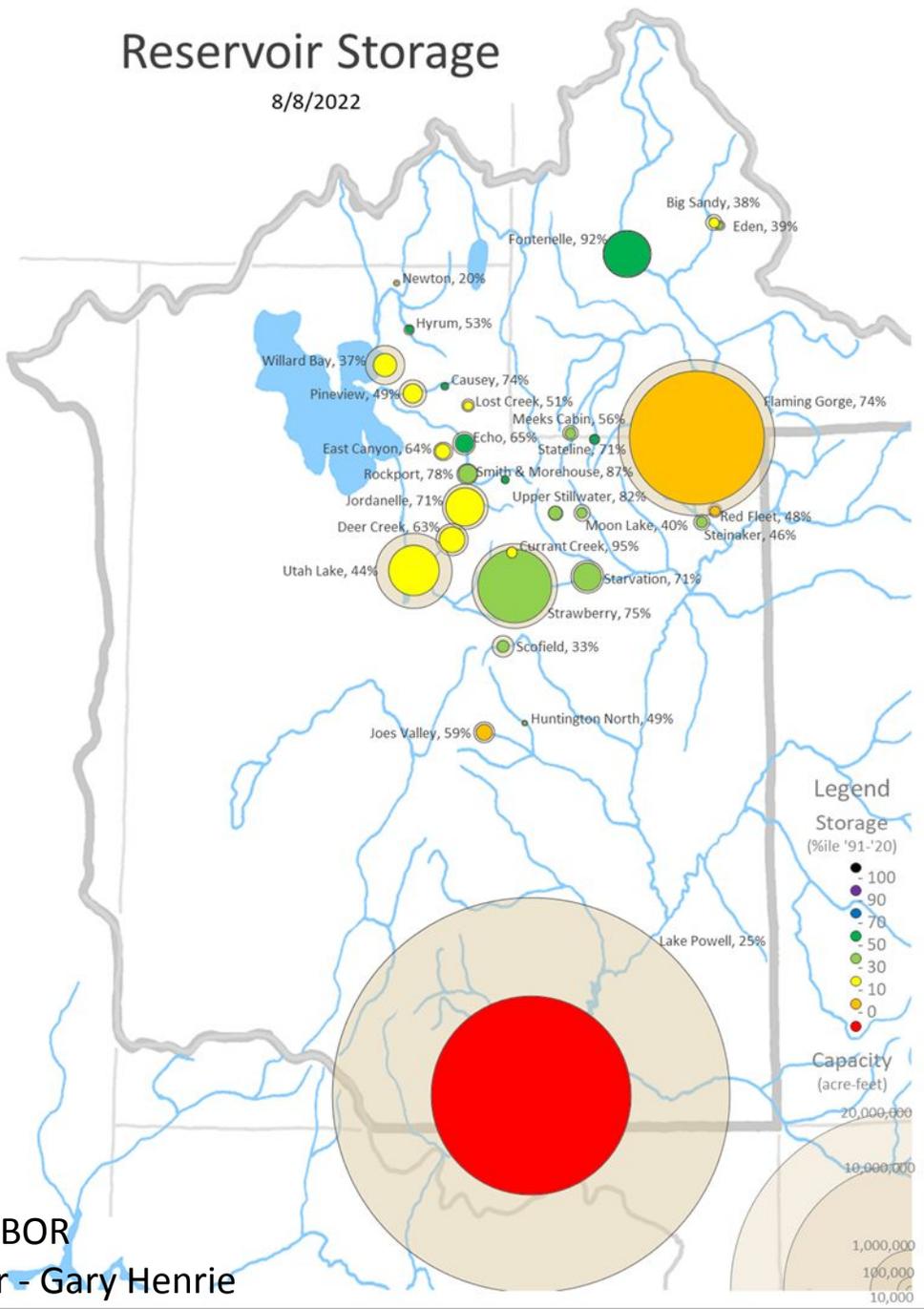




BUREAU OF RECLAMATION

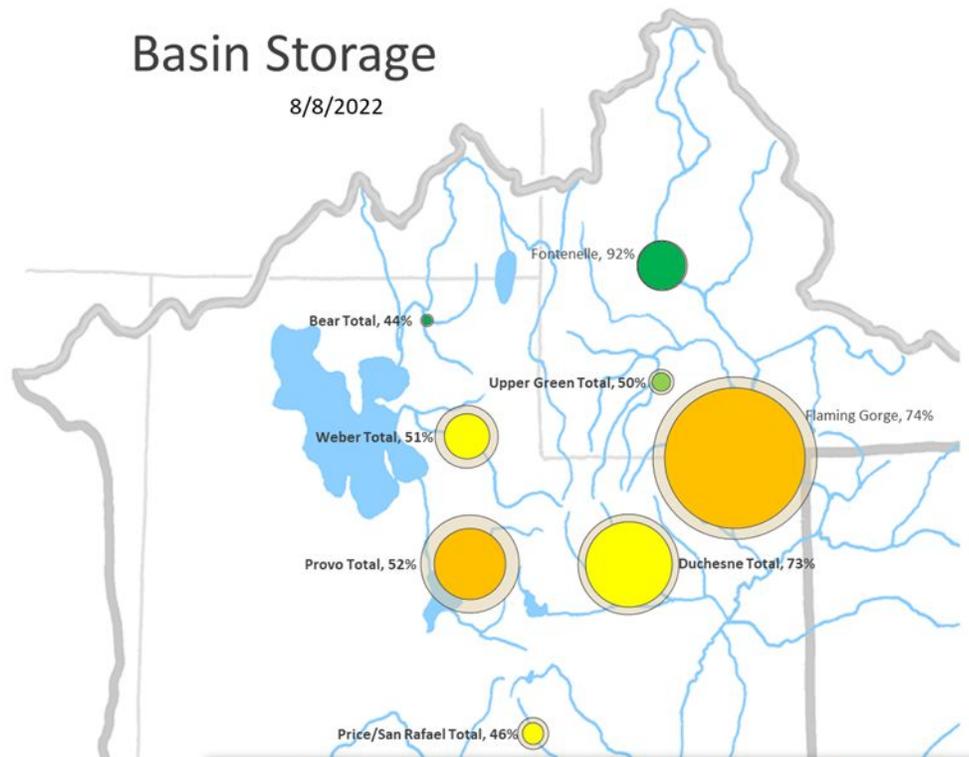
Reservoir Storage

8/8/2022



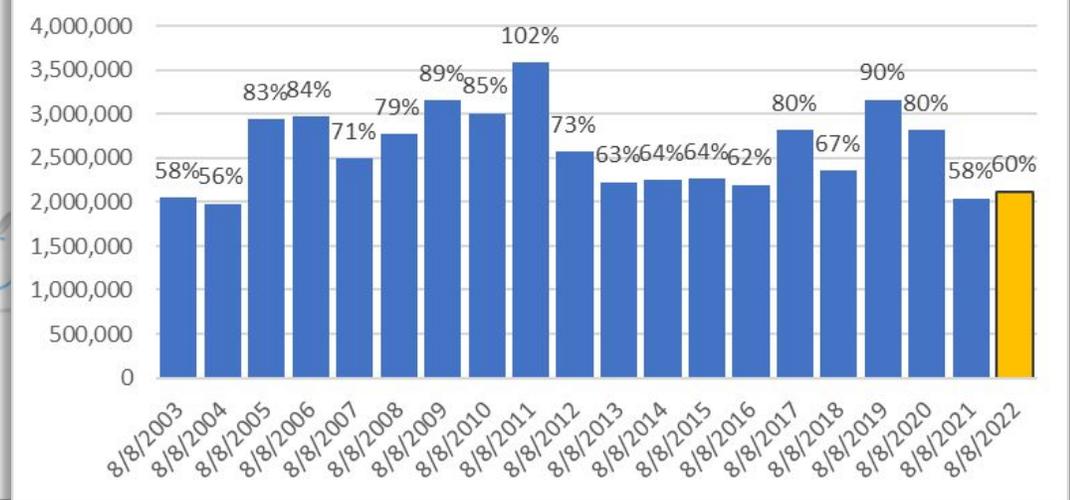
Basin Storage

8/8/2022



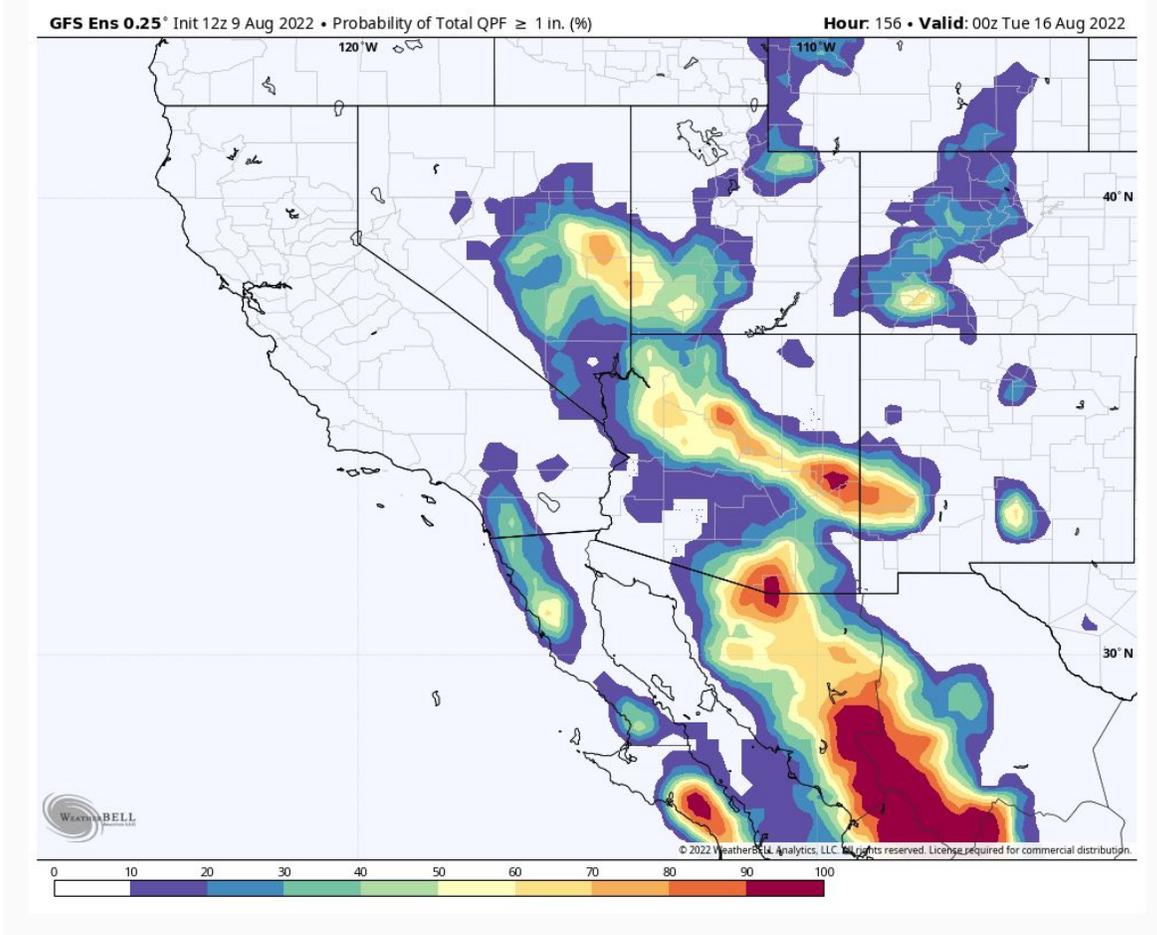
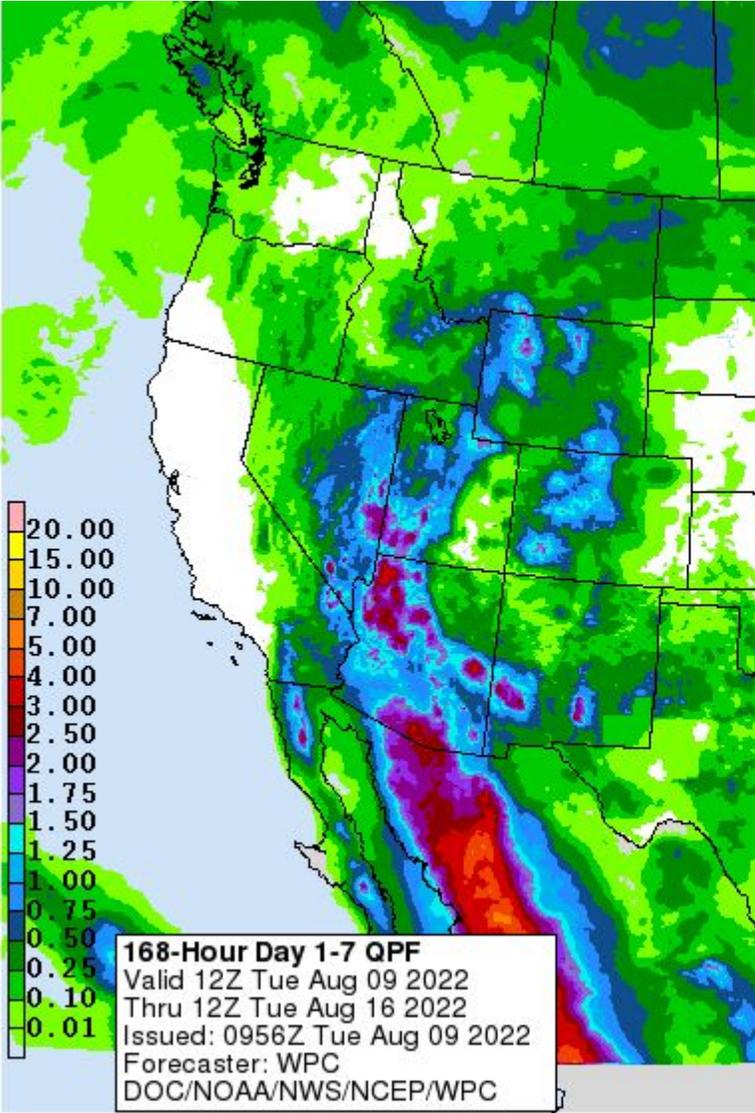
System Storage (acre-feet)

Excluding Fontenelle, Flaming Gorge, and Lake Powell



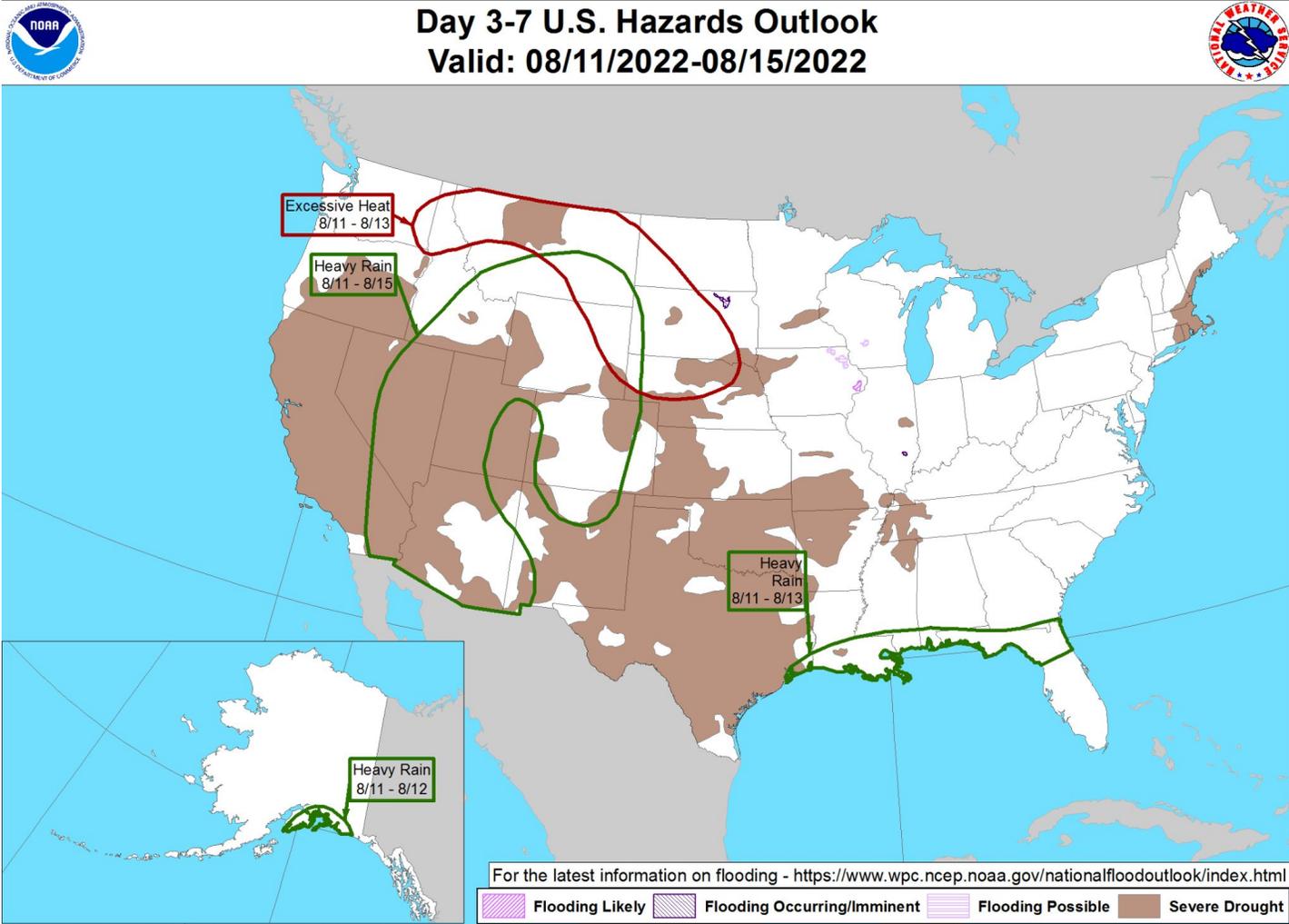
Agency - BOR
Presenter - Gary Henrie

Weather Forecast Office Utah Day 1-7 Outlook



Agency - National Weather Service Weather Forecast Office
Presenter - Christine Kruse

Weather Prediction Center U.S. Day 3-7 Hazards Outlook



Weather Prediction Center

Made: 08/08/2022 3PM EDT

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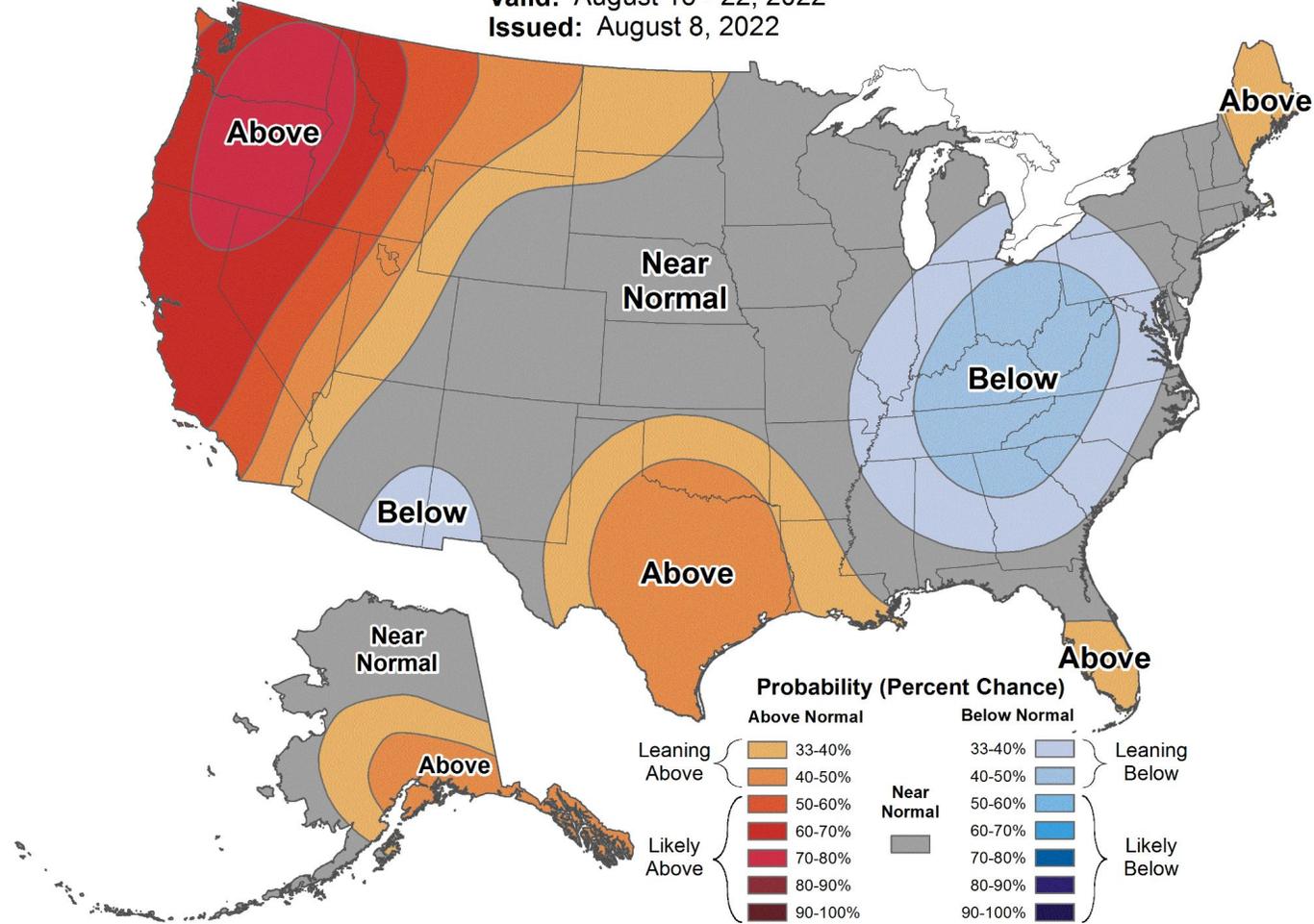
Climate Prediction Center 8 to 14 Day Outlooks - Temperature



8-14 Day Temperature Outlook



Valid: August 16 - 22, 2022
Issued: August 8, 2022



Agency - National Weather Service Weather Forecast Office

Presenter - Christine Kruse

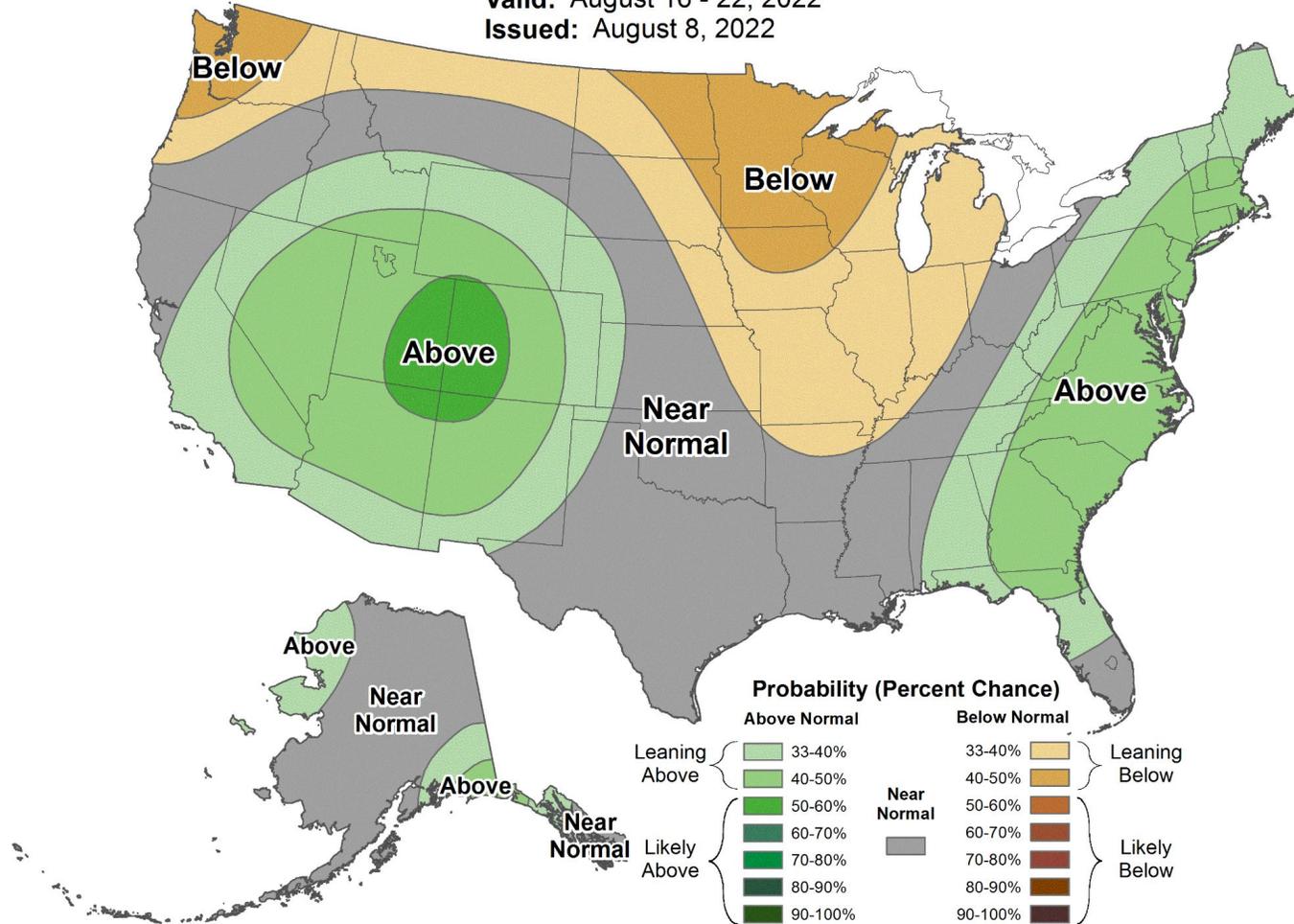
Climate Prediction Center 8 to 14 Day Outlooks - Precipitation



8-14 Day Precipitation Outlook



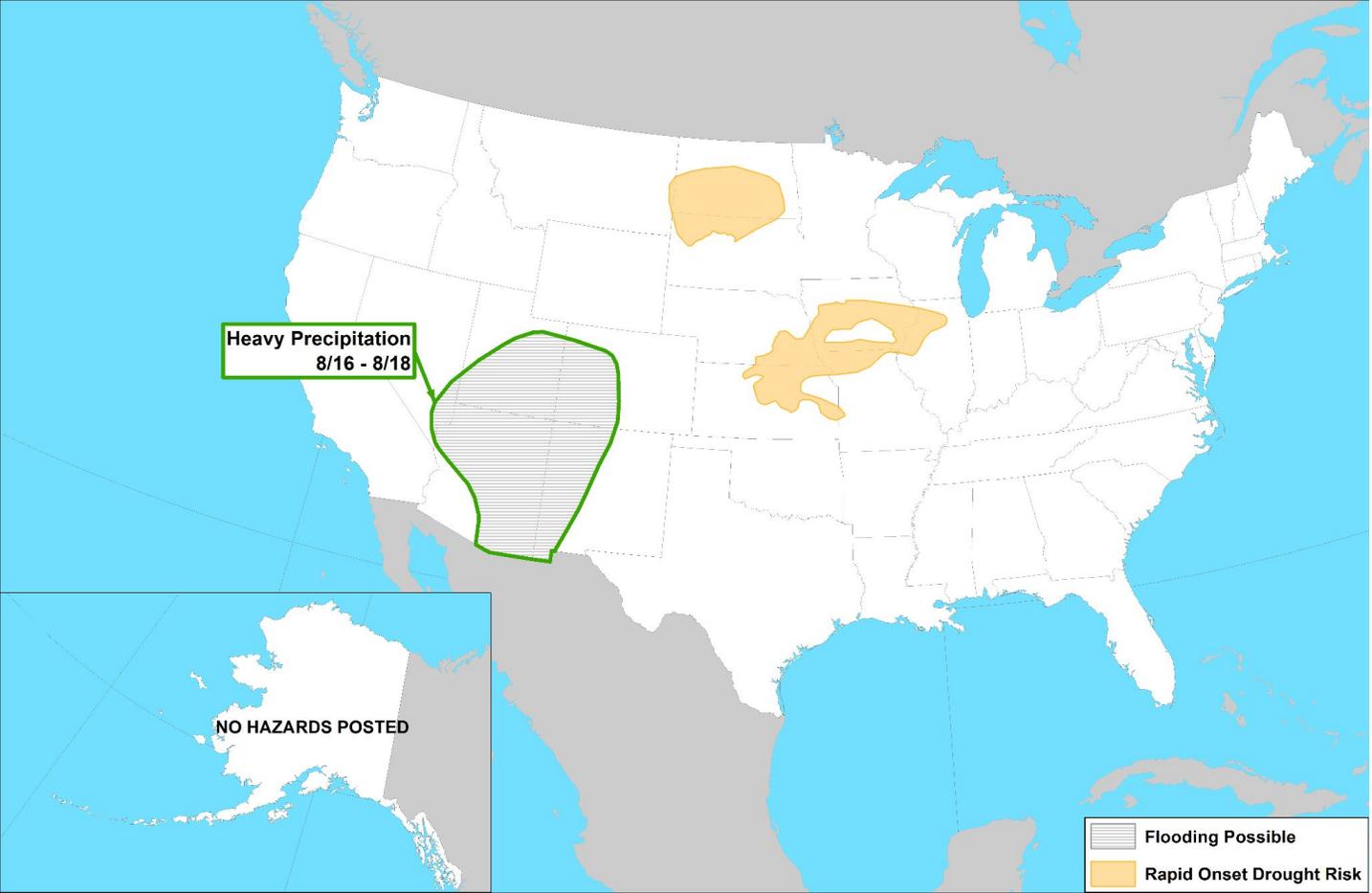
Valid: August 16 - 22, 2022
Issued: August 8, 2022



Climate Prediction Center U.S. Week-2 Hazards Outlook



Day 8-14 U.S. Hazards Outlook
Valid: 08/16/2022-08/22/2022



Climate Prediction Center
Made: 08/08/2022 3PM EDT

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Agency - National Weather Service Weather Forecast Office
Presenter - Christine Kruse

April through July Observed Runoff (Percent of Average)

Weber: 48% - 84% median: 63%

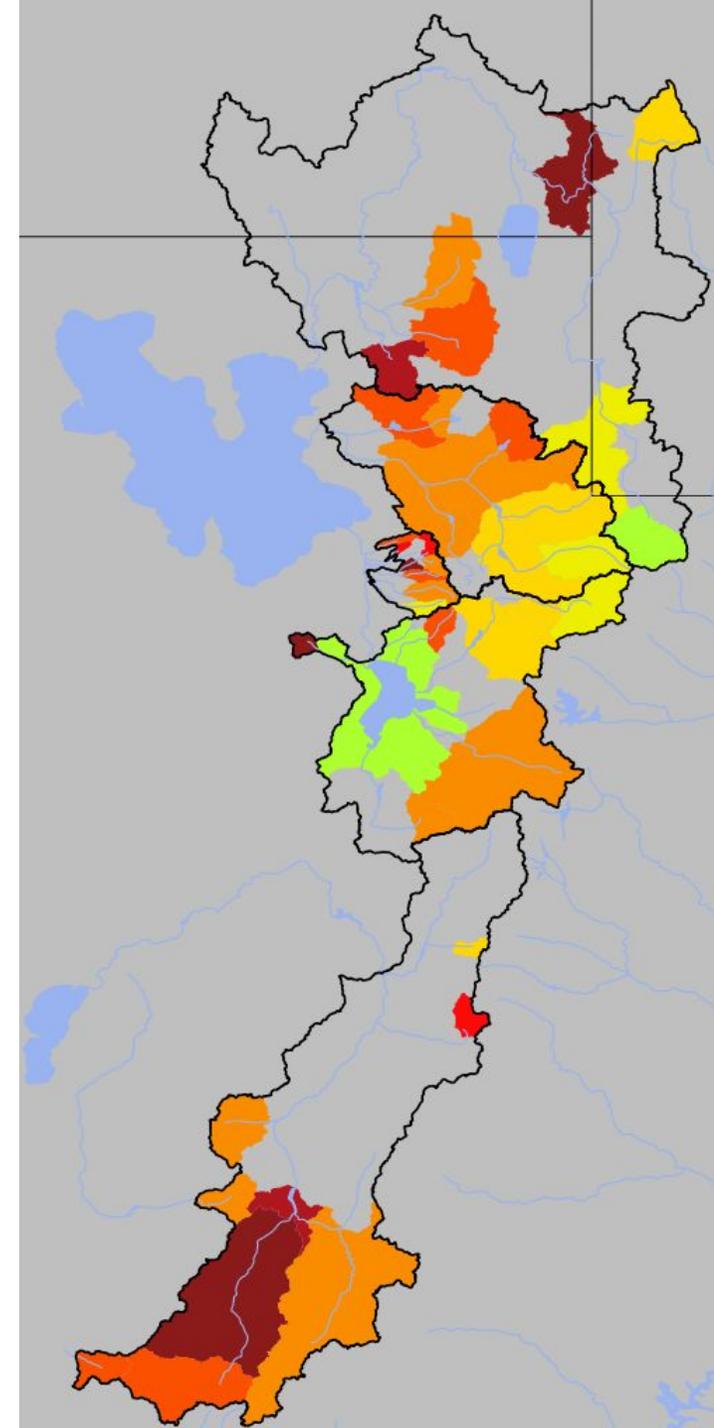
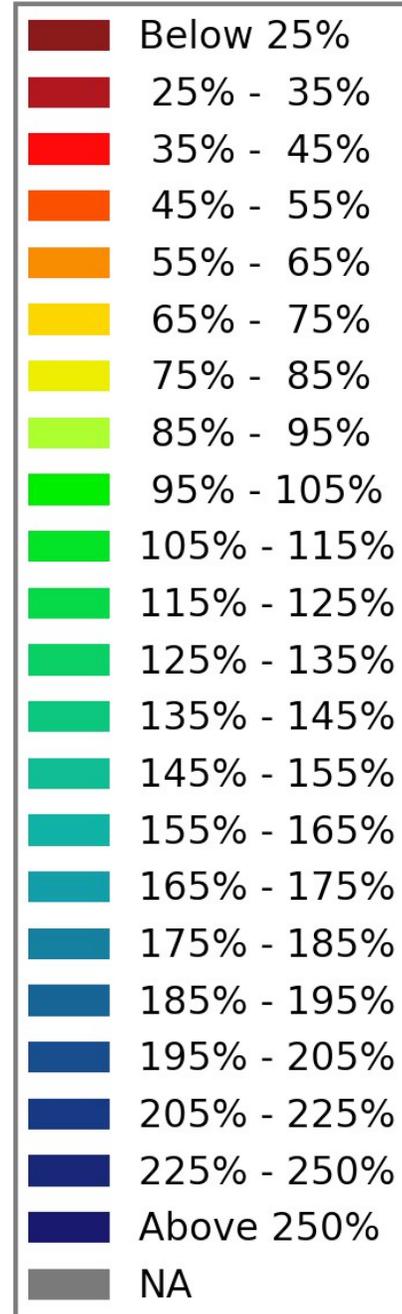
Bear: 35% - 86% median: 58%

Six Creeks: 15% - 83% median: 53%

Utah Lake: 48% - 86% median: 63%

Sevier: 10% - 72% median: 46%

Percent of
Average

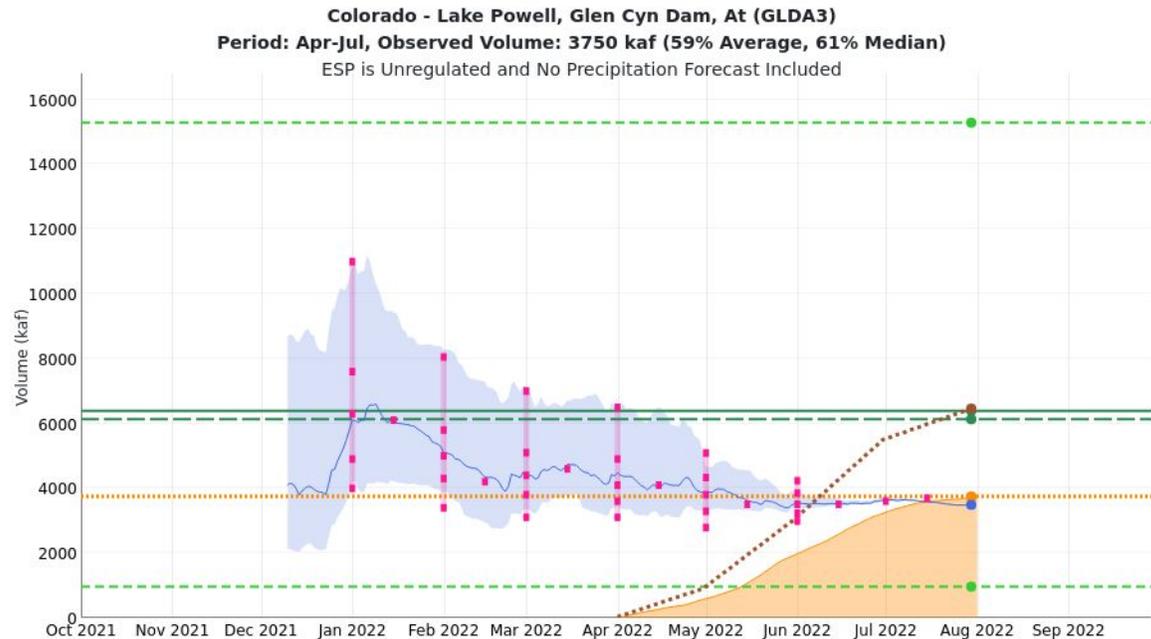


April through July Observed Runoff (Percent of Average)

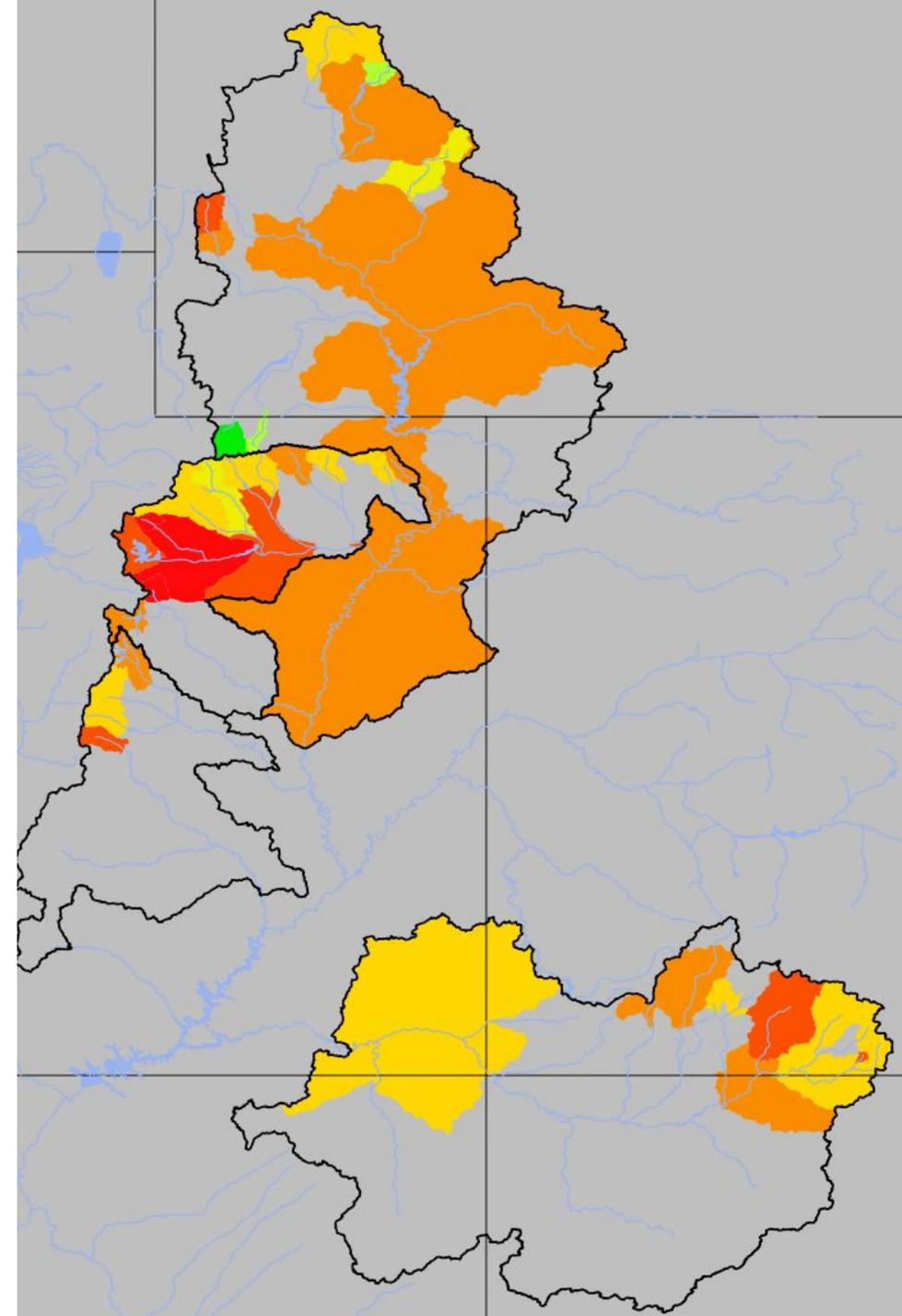
Green River: 37% - 96% median: 64%

San Juan: 50% - 72% median: 66%

Powell: 3.75 MAF, 59% of average



2022/07/30:
Max 1984: 15285.64
Min 2002: 963.96
Average: 6390
Median: 6130
Observed Accumulation: 3720
Observed Total: 3750
Normal Accumulation: 6460
ESP: 3490



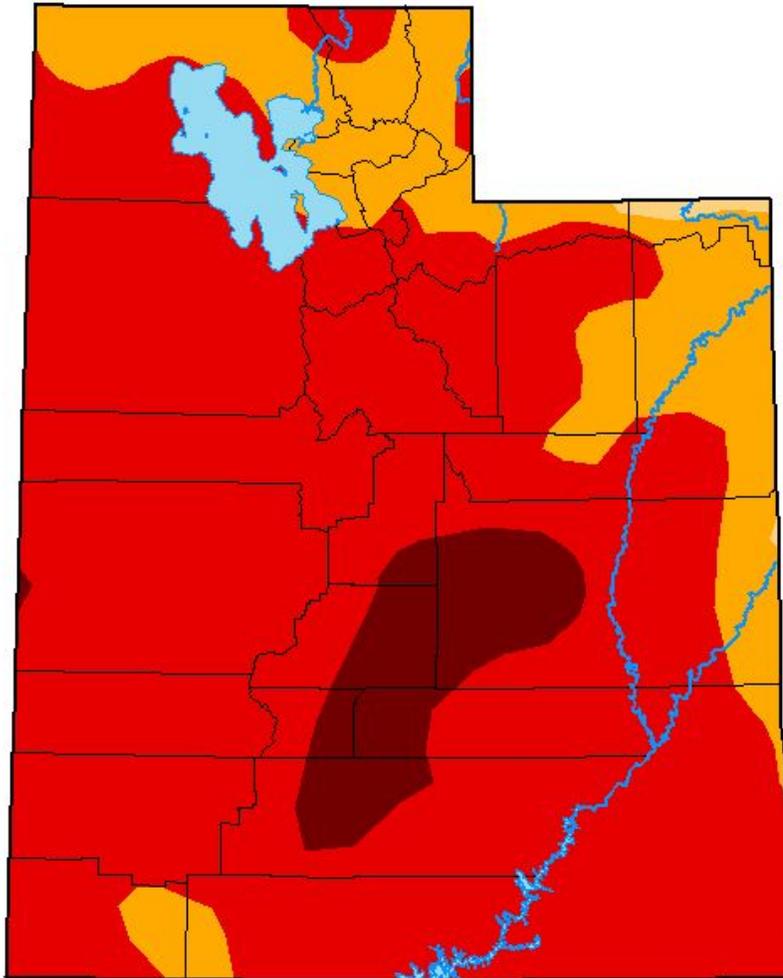
Agency - CBRFC

Presenter - Trevor Grout

U.S. Drought Monitor

Utah

August 2, 2022
 (Released Thursday, Aug. 4, 2022)
 Valid 8 a.m. EDT



Intensity:

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

Author:

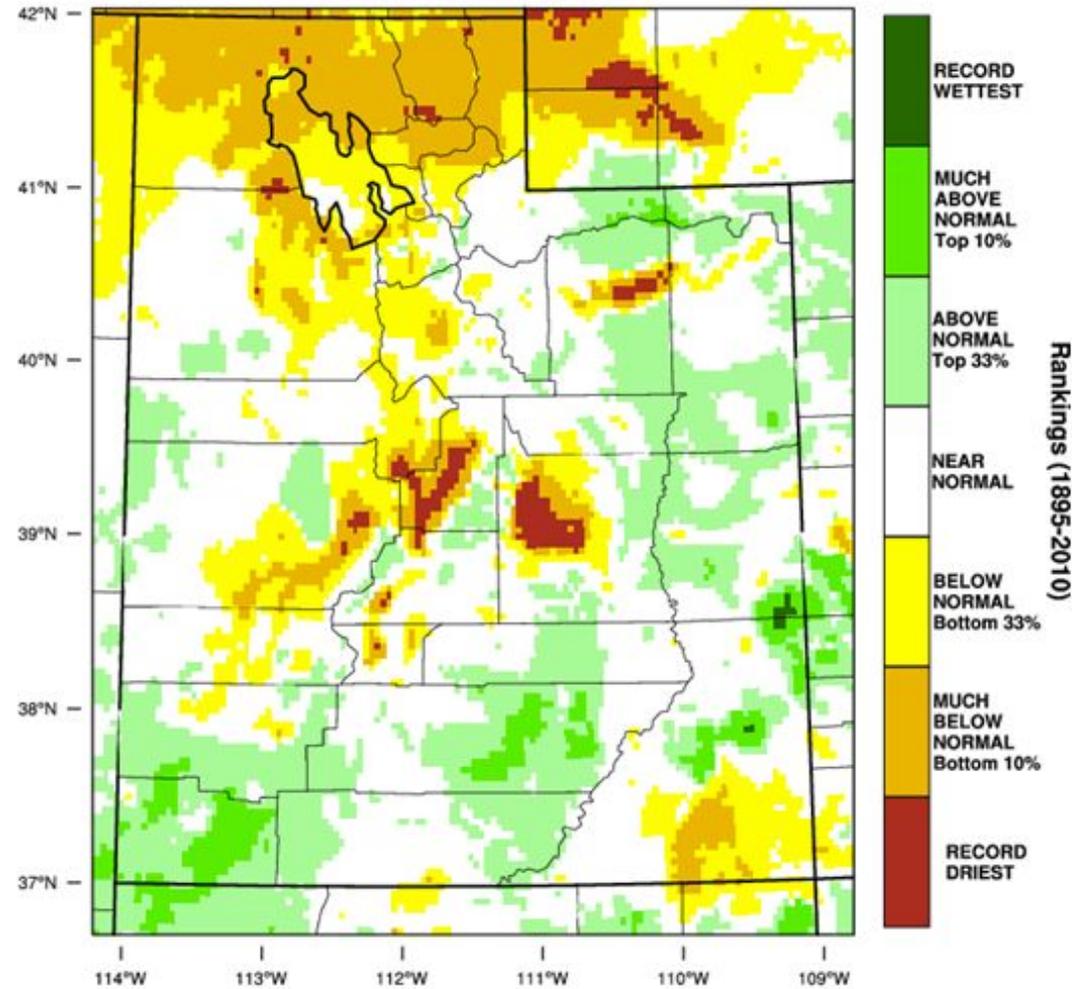
Curtis Riganti
 National Drought Mitigation Center



droughtmonitor.unl.edu

Utah - Precipitation

July 2022 Percentile



WestWide Drought Tracker, U Idaho/WRCC Data Source: PRISM (Prelim), created 5 AUG 2022